

Air Emission Risk Assessment

Combined Cycle Combustion Turbine

Faribault Energy Park, LLC
Faribault, Minnesota

February 2004



A Stanley Group Company
Engineering, Environmental and Construction Services - Worldwide

Air Emissions Risk Analysis

Introduction

Potential emissions of regulated pollutants from the proposed facility were calculated using the MPCA Draft Air Emissions Risk Analysis (AERA) procedure as described in the MPCA publication Facility Air Emissions Risk Analysis Guidance, Version 1.0, September 2003. Potential emissions for a total of five criteria pollutants and 35 air toxics were determined.

The calculated emission rates and potential contaminant concentrations were used to determine exposure levels for all locations around the facility in accordance with the AERA procedure. These values were entered into the MPCA Risk Analysis Spread Sheet (RASS), which calculated projected exposure levels and resulting hazard indices. No adjustments were made in the modeling results to account for spatial or temporal variation in the calculated values. The highest values were simply added to estimate maximum exposures. This was a conservative assumption.

Because land use surrounding the facility is predominantly agricultural, the maximum offsite receptor concentration and the maximum residential receptor concentration are identical. Accordingly, the evaluation assumed that all potential exposures are residential/agricultural in nature. This was a conservative assumption.

The input values and results of the RASS analysis are provided in Appendix A.

Chemicals of Potential Interest

Chemicals of potential interest (COPI) are chemicals that could be released, or are known to be released from a facility, regardless of their toxicity or rate of emission. For this evaluation these include chemicals listed in AP-42, the USEPA “Compilation of Air Pollution Emission Factors Volume 1: Stationary Point and Area Source,” Fifth Edition, for either gas turbines firing natural gas or oil or natural gas-fired boilers, and/or pollutants identified by the USEPA Combustion Turbine Source Work Group (CTWG) as being potentially present in gas turbine exhaust at levels exceeding 0.1 tons per year.

Compounds known to be generated and emitted by the turbine emission control system (ECS) are listed. Criteria pollutants (Criteria) are also included in the RASS analysis although not shown in the list of COPI. The list of chemicals that make up the COPI is shown in form AERA-02 in Appendix A.

Toxicity Assessment

Inhalation toxicity values are used to calculate potential facility-specific inhalation risks from chemicals emitted to the air. Toxicity values established by MPCA and included in the RASS were used as regulatory benchmarks.

The toxicity assessment and all associated toxicity values are summarized in the RASS in Appendix A.

Chemicals of Potential Interest to be Quantified

Chemicals from the COPI list that lack a toxicity value were not included in the quantitative evaluation.

The chemicals of potential concern to be quantitatively evaluated, and their associated information are shown in form AERA-02 in Appendix A.

Air Dispersion Modeling Results

Air dispersion modeling was used to predict the maximum ambient concentration of chemicals, as well as the location(s) of the maximum modeled ambient concentrations of the chemicals. The maximum values were used in evaluating exposure levels. The air dispersion modeling protocol is provided in Appendix C of this document.

Rather than run a separate model for each pollutant and emission scenario, a single run was made using each of the potential operational modes of the facility with a default emission rate of 10 grams per second each for the turbine alone for both natural gas and fuel oil firing. The resulting maximum receptor concentration values were then adjusted to a 1 gram per second default emission rate (RASS default level) and entered into the RASS. The RASS then calculated actual receptor exposure values for each of the COPI's for the worst case operational scenario. The resulting values were then used in the exposure assessment.

The results are shown in the RASS summary in Appendix A.

Exposure Assessment

The exposure assessment quantifies the uptake and intake of COPIs via the inhalation route of exposure including both the acute and chronic uptake or intake by inhalation of COPIs for two receptors:

1. Maximum off-property receptor. The receptor of highest concentration beyond the property fence-line, that is, the point of maximum ambient concentration as determined by air dispersion modeling that is outside the facility's fence-line, regardless of the currently zoned land use.
2. Maximum agricultural/residential receptor. The receptor of highest concentration beyond the property boundary where current and reasonable potential future land use areas are zoned as agricultural or residential.

Risks from indirect (non-inhalation) pathways for farmers and residents were also estimated at the location of maximum concentration. The Risk Analysis Screening Spreadsheet (RASS) incorporates multimedia factors for selected persistent, bioaccumulative toxic chemicals to account for emissions that may or may not lead to ingestion pathway exposures of concern. These multimedia factors are ratios of the maximum risk from the indirect exposure pathway to the maximum risk from the inhalation exposure pathway.

For this assessment, the maximum off-property and the maximum residential receptors are the same, as the land use immediately adjacent to the proposed facility is agricultural. Results of the analysis are shown in the RASS summary in Appendix A.

No sensitive population receptors (schools, daycare facilities, public recreation areas, nursing homes, or hospitals) were identified within 1 km of the facility boundary.

Qualitative Analysis

Those COPI's for which emission factors could not be determined, or for which toxicity values had not been established by MDNR were excluded from the quantitative analysis. These are summarized in forms AERA-02, and AERA-04 in Appendix A.

Risk Characterization

The risk characterization calculates and presents the public health risk estimates based on the information gathered during the hazard identification, exposure assessment, and toxicity assessment steps. This includes assessment of excess cancer risk, acute toxic risk, and chronic toxic risk.

According to MDNR protocol, if the sum of the cancer risk for each contaminant evaluated (the total of all ELCR's, the total excess lifetime cancer risk) is less than or equal to one in one hundred thousand (1×10^{-5}), the risk is considered negligible. If the excess cancer risk is greater than 1×10^{-5} , further review may be warranted.

The dose-response assessment for carcinogens assumes that there is no toxicity threshold dose for carcinogenic compounds. In other words, there is no dose of a carcinogen that is not associated with risk. Health risk estimates for inhalation of carcinogens are based on the following calculation:

$$\text{ELCR} = \text{IEC} \times \text{UR}$$

Where:

ELCR = The excess lifetime cancer risk associated with inhalation exposure to the chemical in ambient air.

IEC = Exposure concentration of a contaminant in the air during the period of exposure ($\mu\text{g}/\text{m}^3$)

UR = Pollutant-specific unit risk, $1/(\mu\text{g}/\text{m}^3)$

For non-carcinogenic health effects, it is believed that an exposure level exists below which no adverse health effects would be expected. Such a level is referred to as a toxicity threshold dose. In theory, the threshold dose would be safe for all receptors that might be exposed at that level. Toxicity values used as regulatory benchmarks are expected to be below the threshold dose. Hazard quotients are calculated using toxicity values to quantitatively determine risk for non-carcinogens.

Hazard quotient estimates for inhalation of each non-carcinogenic chemical are based on the following calculation:

$$\text{HazardQuotient} = \text{IEC} / \text{TV}$$

Where:

IEC = Exposure concentration of contaminant in the air during the period of exposure (ug/m³)

TV = Toxicity value (ug/m³)

According to the MPCA risk management policy, if the hazard index for any endpoint of concern evaluated is less than or equal to one, the risk is considered negligible. If the hazard index for any endpoint of concern is greater than one, further review may be warranted.

The calculations of excess lifetime cancer risk for the combined cycle scenario are presented in the RASS summaries in Appendix A.

The cumulative multipathway excess lifetime cancer risk determined for the proposed facility operating in combined cycle mode is 2×10^{-5} for farmers, and 7×10^{-7} for residential areas versus a defined negligible level value of 1×10^{-5} . Accordingly, the apparent cancer risk presented by the facility is negligible for the residential exposure scenario, but may warrant further evaluation for the farmer exposure scenario.

Approximately 81 percent of the calculated total excess lifetime cancer risk for farmers in the combined cycle mode is represented by the non-inhalation pathway for the compounds PAH plus POM, which are essentially the same compound. These compounds are considered the same as benzo(a)pyrene for risk analysis purposes.

The hazard index calculations for toxic effects for acute, subchronic, and chronic exposures are presented in the RASS summary in Appendix A.

The calculations indicate cumulative hazard indexes for acute, subchronic, and chronic exposures of approximately 0.13, 0.0018, and 0.012 respectively for the combined cycle facility versus a defined negligible level value of 1. Accordingly, the potential effects of the facility are negligible, regardless of exposure time or toxic endpoint.

Criteria Pollutant Modeling Results

The results of the criteria pollutant modeling as it relates to acute and chronic receptors is shown in the RASS results summary in Appendix A. The derivation of these concentrations is discussed further in Section 3 of this application.

Uncertainty Analysis

The uncertainty analysis includes consideration of uncertainty, scientific judgment, and major assumptions that were made. These are summarized in the following.

- 1. Uncertainties in the development of the chemicals of potential interest (COP).**

The list of chemicals of potential concern was developed from USEPA literature, specifically AP-42, and recent USEPA combustion turbine work group information. The sources should have accounted for the majority of pollutants typically emitted at significant levels from natural gas and oil-fired combustion turbines, and natural gas and oil fired boilers of the size range proposed for this project. There are undoubtedly additional compounds present in these emissions that have not been identified or quantified thus far. Presumably, these compounds are either of low toxicity, or present at very low levels, and therefore present little risk.

- 2. Uncertainties in emission rate estimates.**

The emission rates used in the evaluation were obtained from the publications described above. However, emission rates were not always available, and accordingly some of the chemicals of potential concern had to be eliminated from the quantitative analysis.

- 3. Uncertainties in air dispersion modeling.**

The air dispersion modeling was based on standard USEPA and MPCA protocols. These include the use of meteorological data from the nearest available suitable weather station. There will of course be variations from the weather station data and conditions at the site that could affect the projected contaminant concentrations at the various receptor locations. These variations may be either high or low.

- 4. Uncertainties associated with exposure assessment.**

The exposure assessment is based on the dispersion modeling and calculated emission rates, and accordingly is subject to the uncertainties associated with those determinations.

The calculated emission rates and potential contaminant concentrations were used to determine maximum hourly, daily, monthly, and average annual exposure levels for all locations around the facility. No adjustments were made in the modeling results to account for spatial or temporal variation in the calculated values. The highest values were simply added to estimate maximum exposures. This was a conservative assumption, which also adds uncertainty to the evaluation.

- 5. Uncertainties associated with qualitative discussion.**

Four compounds were eliminated from the quantitative analysis due to lack of useful data. The effects of not including these compounds are unknown.

- 6. Uncertainties associated with toxicity values.**

Toxicity values provided by MDNR were used in the analysis. There are numerous uncertainties associated with the determination of those values. Discussion of those is beyond the scope of this evaluation. Further information is available from IRIS, ATSDR, or other agencies.

7. Uncertainties associated with the risk characterization.

The risk characterization was based on the modeling, emission rates, and toxicity values, and accordingly is subject to the same uncertainties present in those evaluations. We attempted to be conservative whenever possible by selecting the highest modeled values and adding calculated concentrations without regard for variations in timing or location. A residential/agricultural exposure scenario (the most conservative) was used with the highest calculated values. Accordingly, the risk characterization should be expected to overestimate the actual risks posed by the facility.

8. Uncertainties associated with the completeness of the assessment.

Not all of the chemicals of potential concern could be evaluated due to lack of emission or toxicity data, however the compounds considered most significant were included in the evaluation. The evaluation is as complete as possible given the available data.

9. Uncertainties associated with the accuracy of the assessment.

Standard risk assessment procedures were utilized in the assessment. The assessment is considered as accurate as is currently possible considering the availability of emission and toxicity data and uncertainties associated with dispersion modeling and risk calculations. In general, the assessment is considered conservative in that it most likely overstates the risk posed by the facility.

Conclusions

The results of the evaluation contained within this Section indicate the following:

- Cumulative Calculated Lifetime Excess Cancer Risk – 2×10^{-5} vs. an insignificant level of 1×10^{-5}
- Cumulative Calculated Hazard Quotient for Acute Exposures – 0.13 vs. an allowable of 1
- Cumulative Calculated Hazard Quotient for Subchronic Exposures – 0.0018 vs. an allowable of 1
- Cumulative Calculated Hazard Quotient for Chronic Exposures – 0.012 vs. an allowable of 1

Appendix A



- 1a) AQ Facility ID No.: _____
1b) AQ File No.: _____
2) Facility Name: Faribault Energy Park Combined Cycle Turbine Facility
3) Facility Location:
Street Address: West of Hwy 76, South of 170th St West
Sec 13, T 110N, R21W
City: Faribault State: MN ZIP Code: _____ County: _____

Purpose

This worksheet is provided to help complete an assessment of air emissions and to organize data to ease review and understanding of pertinent facility information. This worksheet will act as a completeness checklist. If the requested data or forms are not included, please describe whether a substitute has been provided.

4) Checklist: Provide 3 copies of the following:

Submitted (Check)	Document or Form
Electronic Submittals (CD-ROM):	
X	For Each Emissions level scenario (PTE, Future estimated actual) i.e. acute boundaries may be inside the fenceline, chronic may not: Risk Assessment Screening Spreadsheet (RASS) workbook
	DISPERSE summary report and summary figures (if applicable)
X	Model input/output if other dispersion modeling used for dispersion factor (e.g. SCREEN3, ISCST3, ISC-PRIME, AERMOD, BPIP, BPIP-PRIME)
Hard copy of RASS Worksheets:	
X	Summary (results of spreadsheet)
X	COPI characteristics of qualitative chemical inventory
X	Emissions (Emissions rates input into RASS)
X	StkDisp (Stack height info input into RASS)
X	RiskCalcs (Estimated risks by chemical and stack)
X	Concs (Air concentrations resulting from emission rates, stack heights input into RASS)
MPCA Air Emissions Permit Form:	
X	GI-01: Facility Information
X	GI-02: Process Flow Diagram
X	GI-03: Facility and Stack/Vent Diagram
X	GI-04: Stack/Vent Information
X	GI-05D: Fugitive Emission Source Information (if applicable)
X	CR-01: Certification
X	CR-05: Emergency Generators
X	MI-01: Building and Structure Information
Air Emissions Risk Analysis Forms:	
X	AERA-01 Deliverable Checklist (this form)
X	AERA-02 Chemicals of Potential Interest
	AERA-03 Toxic Pollutant Emissions Calculations

X	AERA-04 Qualitative Chemical Effects Inventory
X	AERA-Hg Mercury Analysis for Specific Sources
X	AERA-06 Maps Form
X	AERA-07 Dispersion Factor analysis (modeling)

5) Describe missing information and/or substitutes for the above:



- 1a) AQ Facility ID No.: _____
 1b) AQ File No.: _____
 2) Facility Name: Faribault Energy Park Combined Cycle Turbine Facility

3) Summary of Chemicals of Potential Interest (COPI)

CAS # or MPCA#	Chemical Name	Chemical has IHB in RASS?	Total Facility Release, lb/hr	Total Facility Release, tpy	Emissions Unit Combustion Turbine		Emissions Unit Boiler		Emissions Unit Emergency Generator	
					RASS Merged stack No.1		RASS Merged stack No.2		RASS Merged stack No.3	
					SV No. 001		SV No. 002		SV No.	
					EU No. GP01		EU No. EU02		EU No.	
75-07-0	Acetaldehyde	X	0.07667	0.5289	0.075	0.5285	0	0		
107-02-8	Acrolein	X	0.01224	0.08462	0.01201	0.08456	0	0		
7664-41-7	Ammonia	X	36	95.92	36	95.92	0	0		
7440-38-2	Arsenic	X	0.01997	0.0274	0.01981	0.02717	1.60E-4	2.35E-4		
7440-39-3	Barium	X	1.76E-4	7.70E-4	0	0	1.76E-4	7.71E-4		
56-55-3	Benz(a)anthracene	X	1.18E-6	5.17E-6	0	0	1.18E-6	5.17E-6		
71-43-2	Benzene	X	0.1048	0.2962	0.09906	0.2944	8.00E-5	4.45E-4		
50-32-8	Benzo(a)pyrene	X	4.80E-7	2.10E-6	0	0	4.80E-7	2.10E-6		
205-99-2	Benzo(b)fluoranthene	X	4.26E-7	1.87E-6	0	0	4.26E-7	1.87E-6		
205-82-3	Benzo(k)fluoranthene	X	4.26E-7	1.87E-6	0	0	4.26E-7	1.87E-6		



7440-41-7	Beryllium	X	6.80E-4	9.20E-4	5.60E-4	7.65E-4	1.20E-4	1.50E-4		
9252-4	Biphenyl				0	0	0	0		
106-99-0	1,3-Butadiene	X	0.0289	0.03604	0.02882	0.03602	0	0		
7440-43-9	Cadmium	X	8.76E-3	0.0122	8.64E-3	1.19E-2	1.20E-4	3.40E-4		
7440-47-3	Chromium	X	0.01993	0.02756	0.01981	0.02717	1.20E-4	3.95E-4		
218-01-9	Chrysene	X	6.85E-7	3.00E-6	0	0	6.85E-7	3.00E-6		
7440-48-4	Cobalt	X	3.36E-6	1.47E-5	0	0	3.36E-6	1.47E-5		
7440-50-8	Copper	X	2.40E-4	1.05E-3	0	0	2.40E-4	1.05E-3		
53-70-3	Dibenzo(a,h)anthracene	X	4.81E-7	2.11E-6	0	0	4.81E-7	2.11E-6		
25321-22-6	Dichlorobenzene	X	4.80E-5	2.10E-4	0	0	4.80E-5	2.10E-4		
100-41-4	Ethylbenzene	X	0.06	0.4228	0.06	0.4228	0	0		
86-73-7	Fluorene		1.29E-6	5.65E-6			1.29E-6	5.65E-6		
50-00-0	Formaldehyde	X	1.349	10.10	1.332	10.07	0.01381	0.03034		
110-54-3	Hexane	X	7.16E-2	0.314	0	0	7.16E-2	0.314		
193-39-5	Indeno(1,2,3-cd)pyrene	X	6.16E-7	2.70E-6	0	0	6.16E-7	2.70E-6		
7439-92-1	Lead	X	0.02557	0.03511	0.02521	0.03458	0.00036	0.000535		
7439-96-5	Manganese	X	1.423	1.951	1.423	1.951	2.40E-4	3.65E-4		
7439-97-6	Mercury	X	2.28E-3	6.32lbs/yr	2.16E-3	5.93lbs/yr	1.20E-4	0.39lbs/yr		
67-56-1	Methanol	X								
91-20-3	Naphthalene	X	0.06382	0.1039	6.30E-2	0.1037	2.00E-5	1.05E-4		
7440-02-0	Nickel	X	8.40E-3	0.01188	8.28E-3	0.01136	1.20E-4	5.15E-4		
108-95-2	Phenol	X								
130498-29-2	Polycyclic Aromatic Hydrocarbons (PAH)	X	9.55E-3	2.43E-2	9.55E-3	2.43E-2	0	0		

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PM



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AERA-02
CHEMICALS OF POTENTIAL INTEREST

AIR EMISSIONS RISK ANALYSIS
09/01/03

0-01-7	Polycyclic Organic Matter (POM)	X	9.26E-4	1.07E-3	0	0	9.26E-4	1.24E-4		
75-56-9	Propylene Oxide	X	0.05497	0.3833	5.44E-2	0.3832	0	0		
7782-49-2	Selenium	X	0.0456	0.0625	4.50E-2	0.06174	6.00E-4	7.55E-4		
100-42-5	Styrene	X								
108-88-3	Toluene	X	0.248	1.721	2.44E-1	1.718	1.78E-3	2.83E-3		
1330-20-7	Xylenes (total)	X	0.1219	0.846	0.12006	0.8456	3.00E-5	4.00E-5		
7440-66-6	Zinc	X	1.16E-3	5.08E-3	0	0	1.16E-3	5.08E-3		



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AERA-04

QUALITATIVE CHEMICAL INVENTORY

AIR EMISSIONS RISK ANALYSIS
09/01/03

1a) AQ Facility ID No.: _____

1b) AQ File No.: _____

2) Facility Name: Faribault Energy Park Combined Cycle Turbine Facility

3. Persistent, Bioaccumulative Toxic chemicals are assessed in the multimedia portion of the RASS. However, not all PBTs are captured quantitatively on the RASS list. Additional PBTs will undergo qualitative consideration.
4. Chemical sensitizers cause a chemical allergy that produces an adverse reaction to a chemical from a previous exposure to that chemical or to a chemical that is structurally similar. Those that are quantified in the Risk Analysis Spreadsheet (RASS) are marked with an asterisk. Note chemical sensitizers emitted by the facility, including those quantified in the RASS.
5. The health threshold for chemicals associated with developmental effects from an acute exposure is treated as a ceiling value and should not be exceeded. These chemicals are evaluated in the RASS. Mark the chemical on the list with an estimated hourly ambient concentration greater than the chemical threshold as calculated by RASS.

BOLD CHEMICALS FOUND IN RASS

CAS#, MPCA ID #	Chemical Name	CHECK BOX IF EMITTED AT FACILITY	Multimedia chemicals	Persistent Bioaccumulative Toxic chemicals	Sensitizer	Developmental toxicants with acute ceiling value	CHECK BOX IF ACUTE THRESHOLD IS EXCEEDED (column 7 only)
7439-97-6	Mercury	X	X	X		X	
118-74-1	Hexachlorobenzene			X			
7440-36-0	Antimony			X			
7440-38-2	Arsenic*	X		X		X	
7440-43-9	Cadmium*	X	X	X			
18540-29-9	Chromium*	X	X	X	X		
7440-41-7	Beryllium*	X	X	X	X		
7439-92-1	Lead	X		X			
7440-02-0	Nickel*	X		X	X		
7439-96-5	Manganese	X		X			
7784-49-2	Selenium	X	X	X			
	Dioxins and Furans:			X		X	
00-05-0	Polychlorinated Dibenzodioxins, Total		X	X			
00-05-1	Polychlorinated Dibenzofurans, Total		X	X			



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AERA-04

QUALITATIVE CHEMICAL INVENTORY

AIR EMISSIONS RISK ANALYSIS

09/01/03

CAS#, MPCA ID #	Chemical Name	CHECK BOX IF EMITTED AT FACILITY	Multimedia chemicals	Persistent Bioaccumulative Toxic chemicals	Sensitizer	Developmental toxicants with acute ceiling value	CHECK BOX IF ACUTE THRESHOLD IS EXCEEDED (column 7 only)
00-08-0	Polychlorinated Dibenzo-P-Dioxins And Furans, Total		x	x			
00-08-1	Pentachlorodibenzodioxins, All Isomers		x	x			
00-08-2	Hexachlorodibenzofurans, All Isomers		x	x			
00-08-3	Hexachlorodibenzodioxins, All Isomers		x	x			
00-08-4	Heptachlorodibenzofuran, All Isomers		x	x			
00-08-5	Heptachlorodibenzodioxin, All Isomers		x	x			
00-08-6	Tetrachlorodibenzofurans, All Isomers		x	x			
00-08-7	Tetrachlorodibenzofurans, Other (Excluding 2,3,7,8)			x			
00-08-8	Tetrachlorodibenzodioxins, All Isomers		x	x			
00-08-9	Tetrachlorodibenzodioxins, Other (Excluding 2,3,7,8)			x			
00-09-0	Pentachlorodibenzofurans, All Isomers		x	x			
00-09-1	TCDD Equivalents, 2,3,7,8-		x	x			
132-64-9	Dibenzofurans		x	x			
1746-01-6	Tetrachlorodibenzo-p-dioxin, 2,3,7,8-		x	x			
19408-74-3	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-		x	x			
3268-87-9	Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8-		x	x			
35822-46-9	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-		x	x			
39001-02-0	Octachlorodibenzofuran, 1,2,3,4,5,6,7,8		x	x			
39227-28-6	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-		x	x			
40321-76-4	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-		x	x			
51207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-		x	x			
55673-89-7	Heptachlorodibenzofuran, 1,2,3,4,7,8,9-		x	x			
57117-31-4	Pentachlorodibenzofuran, 2,3,4,7,8-		x	x			
57117-41-6	Pentachlorodibenzofuran, 1,2,3,7,8-		x	x			
57117-44-9	Hexachlorodibenzofuran, 1,2,3,6,7,8-		x	x			



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AERA-04

QUALITATIVE CHEMICAL INVENTORY

AIR EMISSIONS RISK ANALYSIS
09/01/03

CAS#, MPCA ID #	Chemical Name	CHECK BOX IF EMITTED AT FACILITY	Multimedia chemicals	Persistent Bioaccumulative Toxic chemicals	Sensitizer	Developmental toxicants with acute ceiling value	CHECK BOX IF ACUTE THRESHOLD IS EXCEEDED (column 7 only)
57653-85-7	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-		X	X			
60851-34-5	Hexachlorodibenzofuran, 2,3,4,6,7,8-		X	X			
67562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-		X	X			
70648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8-		X	X			
72918-21-9	Hexachlorodibenzofuran, 1,2,3,7,8,9-		X	X			
00-01-7	Polycyclic Organic Matter (POM)	X	X	X			
130498-29-2	Polycyclic Aromatic Hydrocarbons (PAH)	X		X			
189-55-9	Dibenzo[a,i]pyrene		X	X			
189-64-0	Dibenzo(a,h)pyrene		X	X			
191-30-0	Dibenzo(a,l)pyrene		X	X			
192-65-4	Dibenzo(a,e)pyrene		X	X			
193-39-5	Indeno(1,2,3-cd)pyrene	X	X	X			
194-59-2	Dibenzo(c,g)carbazole, 7H		X	X			
205-82-3	Benzo(j)fluoranthene		X	X			
205-99-2	Benzo[b]fluoranthene	X	X	X			
207-08-9	Benzo(k)fluoranthene	X	X	X			
218-01-9	Chrysene (Benzo(a)phenanthrene)	X	X	X			
224-42-0	Dibenz(a,j)acridine		X	X			
226-36-8	Dibenz(a,h)acridine		X	X			
3697-24-3	Methylchrysene, 5-		X	X			
42397-64-8	Dinitropyrene, 1,6 - (BaP)		X	X			
42397-65-9	Dinitropyrene, 1,8 - (BaP)		X	X			
50-32-8	Benzo[a]pyrene	X	X	X			
53-70-3	Dibenz[a,h]anthracene	X	X	X			
5522-43-0	Nitropyrene, 1-		X	X			
56-55-3	Benz[a]anthracene		X	X			
57835-92-4	Nitropyrene, 4-		X	X			
602-87-9	Nitroacenaphthene, 5-		X	X			
607-57-8	Nitrofluorene, 2 -		X	X			



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

AERA-04

QUALITATIVE CHEMICAL INVENTORY

AIR EMISSIONS RISK ANALYSIS
09/01/03

CAS#, MPCA ID #	Chemical Name	CHECK BOX IF EMITTED AT FACILITY	Multimedia chemicals	Persistent Bioaccumulative Toxic chemicals	Sensitizer	Developmental toxicants with acute ceiling value	CHECK BOX IF ACUTE THRESHOLD IS EXCEEDED (column 7 only)
7496-02-8	Nitrochrysene, 6-		X	X			
91-20-3	Naphthalene	X		X			
	isocyanate polyisocyanates (as a group?)				X		
584-84-9	isocyanate toluene diisocyanate*				X		
	Isocyanate hexamethyl diisocyanate*				X		
	isocyanate diphenylmethyl isocyanate				X		
	isocyanate dimethyl thanolamine diisocyanates				X		
	anhydride acid anhydrides				X		
85-44-9	anhydride phthalic anhydride*				X		
552-30-7	anhydride trimellitic anhydride				X		
50-00-0	formaldehyde*	X			X		
	p-tert-butylphenol formaldehyde resin				X		
111-30-8	glutaraldehyde*				X		
7440-06-4	platinum				X		
7440-48-4	cobalt*	X			X		
1314-62-1	vanadium (oxide)*				X		
	aluminum salts				X		
0-00-6	cobalt chloride (compounds)*				X		
	persulfate				X		
	paraphenylenediamine				X		
107-15-3	ethylene diamine				X		
112-24-3	triethylene tetramines				X		
	hexamethylene tetramine				X		
108-88-3	toluene*	X			X		
507-09-5	thioacetic acid				X		
334-88-3	diazomethane				X		
538-75-0	dicyclohexylcarbodiimide				X		
	benzylic and allylic halides				X		
8007-45-2	coal tar volatiles*				X		
	latex rubber				X		



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

AERA-04

QUALITATIVE CHEMICAL INVENTORY

AIR EMISSIONS RISK ANALYSIS
09/01/03

CAS#, MPCA ID #	Chemical Name	CHECK BOX IF EMITTED AT FACILITY	Multimedia chemicals	Persistent Bioaccumulative Toxic chemicals	Sensitizer	Developmental toxicants with acute ceiling value	CHECK BOX IF ACUTE THRESHOLD IS EXCEEDED (column 7 only)
25928-94-3	epoxy resin				x		
91-22-5	quinoline mix				x		
333-18-6	ethylenediamine dihydrochloride				x		
	paraben mix				x		
0-00-8	soluble chromium salts (potassium dichromate) (compounds)*				x		
	carba mix (1,3-diphenylguanidine, zinc diethyldithiocarbamate and zinc)*				x		
	black rubber mix (N-isopropyl-N-phenyl paraphenylenediamine, N-cyclohexyl-N-phenyl paraphenylenediamine, and N,N-diphenyl paraphenylen diamine)				x		
	isothiazolinones				x		
	quaternium-15				x		
	mercaptobenzothiazole (MBT)				x		
106-50-3	p-phenylenediamine (PPD)				x		
	mercapto mix				x		
54-64-8	thiomersal				x		
	thiuram mix				x		
71-43-2	Benzene	X				x	
75-15-0	Carbon disulfide					x	
111-15-9	Cellosolve Acetate					x	
67-66-3	Chloroform					x	
110-80-5	2-ethoxyethanol					x	
100-41-4	Ethyl benzene	X				x	
75-00-3	Ethyl chloride					x	
109-86-4	2-methoxyethanol					x	
79-01-6	Trichloroethylene					x	
56-23-5	Carbon tetrachloride					x	
75-56-9	Propylene oxide	X				x	
	Pesticides—if emitted, please list				x		
	Phthalates—if emitted, please list				x		



-
- 1) AQ Facility ID No.: _____
- 2) AQ File No.: _____
- 3) Facility Name: Faribault Energy Park Combined Cycle Turbine Facility
-

Maps provide a pictorial representation of information and allow for significant abbreviation of text submittals.

1. Provide a “sensitive population receptor” map of the facility and the surrounding area with the following features. The map should cover a circular area around an emissions facility. At a minimum, the radius of the circle should be 1 km from all emission points.
 - a. Facility location
 - b. Schools
 - c. Daycares
 - d. Public recreation areas (could include playgrounds, swimming pools, tennis courts, city parks, etc.)
 - e. Nursing homes
 - f. Hospitals
 - g. Other locations where sensitive receptors congregate
2. Facilities emitting PBTs should provide a map showing the following features:
 - a. **Fishable water bodies.** A water body may be considered “fishable” if it typically contains water year-round in a year that receives at least 75 percent of the normal annual precipitation for that area. For facilities with stack heights less than 100 meters, provide a map showing lakes, rivers and streams within a 3 km radius (approx. 2 miles). For facilities with stack heights greater than 100 meters, show lakes, rivers and streams for the area within a 10 km radius (6 miles). Also show water bodies outside the specified area that may be fed by rivers and streams lying within the radius of interest. The length of the reach of river or stream (or extent of a lake) outside the radius that must be shown will be determined case-by-case based on local data and conditions.
 - b. **Farming locations.** If no information is available regarding land use, the default assumption will be that a farmer could be impacted by facility emissions, and the farmer’s risks will be used as a basis for decisions. If land use information is provided to the MPCA indicating that the area within a 2-mile radius (6 miles for stack heights greater than 100 meters) is entirely residential (or that it is not and will not be agricultural), only the indirect risks for the resident (which will be lower than the risks to the farmer) will be considered in any risk-based determinations to be made regarding a facility.



1) AQ Facility ID No.: _____

2) Facility Name: Faribault Energy Park Combined Cycle Turbine Facility

Purpose

This worksheet is provided to help describe the assumptions made to determine dispersion factors within the air emissions risk evaluation. This worksheet will act as a completeness checklist. If the requested data or forms are not included, please describe why they are not included, and indicate if substitutes are provided.

Information Requested for All Submittals:

1. Does the modeling include any point sources? **Yes** No
2. Does the modeling include any fugitive sources? **Yes** No
3. Are all dispersion factors from the DISPERSE Look-Up Table? Yes **No**
4. Enter the maximum terrain variation (meters) (as applicable):
 - a. Within 10m of shortest stack: 1.
 - b. Within 100m of shortest stack: 3.
 - c. Within 1000m of shortest stack: 15.
 - d. Within 10m of lowest fugitive source: 1.
 - e. Within 100m of lowest fugitive source: 3.
 - f. Within 1000m of lowest fugitive source: 15.
5. Stacks/Vents (if applicable)
 - a. Are all stacks considered? **Yes** No
 - b. Were any stacks merged? Yes **No**
 - c. Were stacks merged per MPCA DISPERSE guidance? Yes No **N/A**
 - d. Does the shortest modeled stack height in RASS equal the shortest height on Form GI-04? **Yes** No
6. Fugitive Emission Sources (if applicable)
 - a. Are there any onsite paved roads? **Yes** No
 - b. Are there any onsite unpaved roads? Yes **No**
 - c. Are there any onsite storage/surge piles? Yes **No**
 - d. Are there any onsite material handling operations? **Yes** No
 - e. Are there any other types of onsite fugitive sources? Yes **No**
 - f. Does the modeling consider all onsite fugitive sources? Yes **No**
 - g. Does the modeling consider most onsite fugitive sources? **Yes** No

7. Stack Parameters (modeled values should match Form GI-04 values unless merged):

Modeled Stacks and Stack Parameters (see example below):

Model ID & Form GI-04 SV_ID_No.	RASS Stack ID number	Stack Height (meters)	Stack Temperature (Kelvin)	Stack Velocity (m/sec)	Stack Diameter (meters)
1 GSV1 - SV001	1	51.82	392	19.67	5.79
2 GSV2 - SV002	2	41.15	458	21.02	0.61
3					
4					
5					
6					
7					
8					
9					
10					

8. Fugitive Source Release Heights and Area Coverage (if applicable).

Please indicate in Table 7 if any fugitive/area source was modeled as a point source

Model ID & Form GI-05D FS_ID_No.	RASS Stack ID number	Release Height (meters)	Area Coverage (m ²)	Brief Description of Fugitive Source
1 N/A				
2				
3				
4				
5				
6				
7				
8				
9				
10				

EXAMPLE of Merged and Unmerged Stack Parameters

Model ID & Form GI-04 SV_ID_No.	RASS Stack ID number	Stack Height (meters)	Stack Temperature (Kelvin)	Stack Velocity (m/sec)	Stack Diameter (meters)
1 (3 merged stacks from Form GI-04):		10.0 (lowest of 3 values below)	293 (lowest of 3 values below)	2.5 (lowest of 3 values below)	1.0 (lowest of 3 values below)
SV001		10.0	300	3.3	1.1
SV002		11.0	310	2.5	1.1
SV003		12.0	293	2.7	1.0
2 (SV004 only)		20	400	3.3	1.0
3 (SV005 only)		15	350	11.1	3.2
4 (Coal Pile)		1	293	0.001	20

Supplemental Information Requested when using DISPERSE Batch Programs:

9. Building Data

- a. Circle the Building Profile Input Program (BPIP) option used:
 - i. BPIP option 1: MPCA defined “square” structure
 - ii. BPIP option 2: User defined “rectangular” structure
 - iii. BPIP option 3: pre-existing BPIP file; Filename: _____.
- b. Is the tallest modeled building height greater than or equal to the tallest height on Form MI-01? Yes No

10. Circle the Land Use Land Cover (LULC) option used:

- a. Cultivated land (a.k.a. row crops or cropland; $z_0 \sim 0.01\text{m}$ to 0.2m);
- b. 50/50 mix of cultivated land and deciduous forest ($z_0 \sim 0.3\text{m}$ to 0.8m);
- c. Deciduous forest (and major urban downtown areas) ($z_0 \sim 0.5\text{m}$ to 1.3m);
- d. Unknown

11. Does the modeling use five years of meteorological data? Yes No

12. Are all DISPERSE stack locations at the “building” center? Yes No

Supplemental Information Requested when using other modeling (e.g., ISCST3, ISC-PRIME, or AERMOD):

13. Is a CD-ROM included with all modeling input/output files (BPIP; ISCST3 or ISC-PRIME or AERMOD)? Yes No

14. Indicate the model (version number), model options (e.g., DEFAULT, CONC, FLAT, ELEV, RURAL, URBAN), and POLLUTID, AVERTIME, MULTYEAR, and HnH selections:

ISC3P, Version 01228 Default, Rural, MULTYEAR, H1H

15. Is terrain considered? Yes No If yes, circle DEM data: 1-degree, **7.5 minute**, mix, other.

16. Surface meteorological station: Rochester

17. Upper air meteorological station: St. Cloud

18. Years of meteorological data: 1985 - 1989

19. Does the modeling calculate high-first-high (H1H) values? Yes No

20. Does the AERA (RASS) spreadsheet only use H1H values? Yes No

21. Other comments to help understand the modeling (e.g., describe receptor grids, BPIP, etc.):

Refer to Modeling protocol discussion in permit application

Supplemental Information Requested (Optional)

22. Do you think this project would significantly benefit from improved dispersion factors? Yes No

23. If 22 is yes, please rank the top 3 items you think would be most helpful:

- Improved stack parameters (height, diameter, temperature, velocity)
- Improved fugitive source information (release height, area coverage)
- Improved general building dimensions
- Improved specific building dimensions
- Improved joint stack/building data (Building Profile Input Program (BPIP) data)

- Fewer merged stacks
- More meteorological options
- More Land Use Land Cover (LCLC) options
- Non-H1H values for short-term criteria pollutants (e.g., H6H 24-hour PM10 values)*

- Terrain options*
- 1.0 degree USGS Digital Elevation Model (DEM) data*
- 7.5 minute USGS Digital Elevation Model (DEM) data*

- Values paired in time*
- Values paired in space*
- Values paired in space & time*

- Facility-specific receptors (e.g., company fence line and/or property line)*
- Source-by-Source impacts (i.e., culpability tables via EVENTFIL option)*

- Other suggestions (list and rank):

* Probably means refined modeling instead of screening modeling.



Purpose: Recognizing that Minnesota's surface waters are impaired by unacceptable levels of mercury, virtually all of which comes from the air, and that sometimes releases to the air are unavoidable, the MPCA's goal is to minimize increases in mercury emissions associated with new facilities or expansions. Of particular focus in this guidance are mercury releases from taconite production, secondary metal processors, industrial and electric generation boilers (except when burning only natural gas), and sewage sludge, municipal or other incineration.

Applications for modifications (as defined in Chapter 7007) or new facilities in these sectors should demonstrate that mercury emissions have been accurately quantified, and that the project's mercury emissions have been minimized through an effort to identify cost-effective emission reduction alternatives. Demonstration of an appropriate level of effort should be achieved through the following steps:

1. Provide estimates of potential, current actual, and future actual emissions, in pounds per year (see attached Table 1).
2. Describe any measures currently in use at the facility to reduce mercury emissions. Reduction measures may include pre-processing methods or technologies, selection of process units that are inherently low emitting technologies, or downstream/add-on control equipment.
3. Provide a diagram that shows the flow of mercury through the facility. The MPCA has found that opportunities for mercury reduction often become evident from an analysis of mercury inputs, flow through the process, and outputs. Accordingly, the MPCA recommends that proposals include a diagram of mercury flow through the facility to identify significant pathways of mercury associated with the project. Mercury Flow Diagrams are most useful when quantitative estimates are made, but qualitative diagrams are a useful first step. Figure 1 is an example of a Mercury Flow Diagram, as produced by the Western Lake Superior Sanitary District (WLSSD) for their process in 1993. WLSSD has since discontinued incineration, but nevertheless, this flow diagram serves as an excellent example.
4. Provide an evaluation of alternatives that could be used to reduce mercury emissions, including a comparison of reduction potential and cost. This evaluation can be summarized in a table that lists alternatives that could be used to reduce mercury emissions, including a comparison of reduction potential and cost (see, for example, Table 2). The reduction alternatives should not be limited to industry-standard controls for the source category. The alternatives should include methods to avoid introducing mercury into the process, controls applied to similar types of sources, innovative control technologies and strategies, modification of the existing process or process equipment, pollution prevention measures, and combinations of these alternatives. If the alternative selected for implementation is not the lowest in mercury emissions, then the project proposer is expected to demonstrate that the alternatives lower in mercury emissions are either not technically or economically feasible.



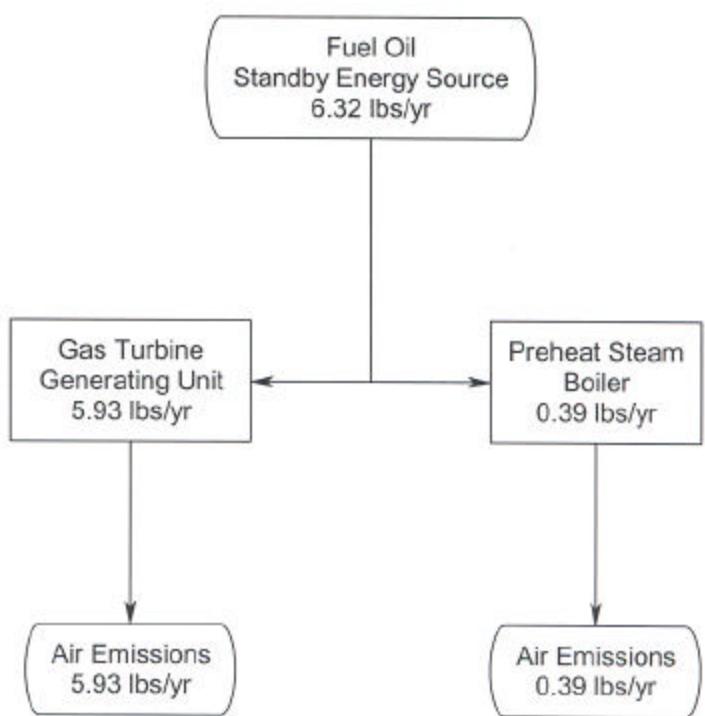
Table 1. A table that can be used to summarize changes in mercury emissions associated with a new or expanded facility.

Source Name/Id	potential to emit (pounds per year)				current actual emissions (pounds per year)				future estimated actual emissions (pounds per year)			
	particulate-bound	ionized	elemental	total	particulate-bound	ionized	elemental	total	particulate-bound	ionized	elemental	total
Turbine SV001	Unk	Unk	Unk	5.93	Unk	Unk	Unk	0	Unk	Unk	Unk	5.93
Boiler SV002	Unk	Unk	Unk	0.39	Unk	Unk	Unk	0	Unk	Unk	Unk	0.39

1. Provide an estimate of mercury emissions for each emissions source expected to release mercury,
2. If the mercury emissions can be speciated into its chemical form, please provide an estimate for each fraction and the total.
3. Provide a description of the data sources relied upon in generating the data for this table.

Table 2. A table that can be used to summarize alternative methods to reduce mercury emissions from a facility.

Alternative	Total Mercury Emitted (lb)	Alternative Description	Reduction Potential (lb)	Annualized Cost (\$)	Cost Effectiveness (\$ per lb Hg)
A	6.32	Operate facility 2500 hrs/yr on backup fuel (fuel oil)	0	Unk	N/A
B	3.16	Limit facility backup fuel use to 1250 hrs/yr	3.16	Unk	N/A
C	1.26	Limit facility backup fuel use to 500 hrs/yr	5.06	Unk	N/A



STANLEY CONSULTANTS, INC.

**Faribault Energy Park
Combined Cycle Gas Turbine
Mercury Flow Diagram**

Summary

No Inputs Allowed on this Page

Screening Date:
AQ Facility ID No.:
AQ File No.:
Facility Name:
Facility Location:
User Title:

0
0
0
Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

Criteria Pollutant Screen					
Chemical	Fraction of 1-hr std	Fraction of 3-hr std	Fraction of 24-hr std	Fraction of qtrly std	Fraction of annual std
SO2	0.027	0.022	0.022		0.003
PM10			0.348		0.006
PM2.5			0.000		0.000
NOx					0.004
CO	0.009				
Pb				0.000	

Air Toxics Screen												
Total Inhalation Screening Hazard Indices and Cancer Risks				Total Indirect Pathway Screening Hazard Indices and Cancer Risks				Total Multipathway Screening Hazard Indices and Cancer Risks				
Acute	Subchronic Noncancer	Chronic Noncancer	Cancer	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer	
1.3E-01	1.8E-03	1.2E-02	6.4E-07	3.2E-05	2.2E-05	0.0E+00	7.9E-08	1.2E-02	2.3E-05	1.2E-02	7.2E-07	

Summary

No Inputs Allowed on this Page

Screening Date:
AQ Facility ID No.:
AQ File No.:
Facility Name:
Facility Location:
User Title:

0
0
0
Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

Fraction of VOCs assessed	0.036
Fraction of HAPs assessed	not calculated

Total Criteria Pollutant Emissions (tpy)	1227.575
Total HAP Emissions (tpy)	0.000
Total VOC Emissions (tpy)	407.900

Ceiling Values Exceeded?	
Benzene	no
Carbon disulfide	no
Cellosolve Acetate	no
Chloroform	no
2-ethoxyethanol	no
Ethylbenzene	no
Ethyl chloride	no
2-methoxyethanol	no
Trichloroethylene	no
Arsenic	no
Carbon tetrachloride	no
Mercury	no
Propylene oxide	no

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
SO2	SO2			92.4	113.33	2.05	2.61								
PM10	PM10			984.44	431.86	1.25	2.13								
PM2.5	PM2.5														
NOx	NOx			51.85	91.71	3.89	7.86								
CO	CO			1191.48	565.78	4.78	12.26								
Pb	Pb			0.02521	0.03458	3.60E-04	5.35E-04								
VOCs	VOCs			1220.74	407.09	0.32	0.81								
Total HAPs	Total HAPs														
75-07-0	Acetaldehyde	YES	YES	0.075	0.5285	0	0.00E+00								
60-35-5	Acetamide	YES	YES												
75-05-8	Acetonitrile	YES	YES												
107-02-8	Acrolein	YES	YES	0.01201	0.08456	0.00E+00	0.00E+00								
79-06-1	Acrylamide	YES	YES												
79-10-7	Acrylic acid	YES	YES												
107-13-1	Acrylonitrile	YES	YES												
00-07-9	Aldehydes	Some	YES												
309-00-2	Aldrin	NO	NO												
107-05-1	Allyl chloride	YES	NO												
117-79-3	Aminoanthraquinone, 2-	YES	NO												
7664-41-7	Ammonia	NO	NO	36	95.92	0	0								
62-53-3	Aniline	YES	YES												
7440-36-0	Antimony	YES	NO												
0-00-1	Antimony Compounds	YES	NO												
1309-64-4	Antimony trioxide	YES	NO												
140-57-8	Aramite	NO	YES												

Emissions

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
SO2	SO2											115.94
PM10	PM10											433.99
PM2.5	PM2.5											0
NOx	NOx											99.57
CO	CO											578.04
Pb	Pb											0.035115
VOCs	VOCs										407.9	
Total HAPs	Total HAPs									0		407.9
75-07-0	Acetaldehyde									0.5285	0.5285	
60-35-5	Acetamide									0	0	
75-05-8	Acetonitrile									0	0	
107-02-8	Acrolein									0.08456	0.08456	
79-06-1	Acrylamide									0	0	
79-10-7	Acrylic acid									0	0	
107-13-1	Acrylonitrile									0	0	
00-07-9	Aldehydes										0	
309-00-2	Aldrin											
107-05-1	Allyl chloride									0		
117-79-3	Aminoanthraquinone, 2-									0		
7664-41-7	Ammonia											
62-53-3	Aniline									0	0	
7440-36-0	Antimony									0		
0-00-1	Antimony Compounds									0		
1309-64-4	Antimony trioxide									0		
140-57-8	Aramite									0		

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
7440-38-2	Arsenic	YES	NO	0.01981	0.02717	1.60E-04	2.35E-04								
0-00-2	Arsenic Compounds	YES	NO												
1327-53-3	Arsenic Trioxide	YES	NO												
7784-42-1	Arsine	YES	NO												
1332-21-4	Asbestos	YES	NO												
7440-39-3	Barium	NO	NO	0.00E+00	0.00E+00	1.76E-04	7.71E-04								
00-03-0	Barium Compounds	NO	NO												
56-55-3	Benz[a]anthracene	YES	NO	0.00E+00	0.00E+00	1.18E-06	5.17E-06								
88-74-4	Benzenamine, 2-Nitro-	NO	NO												
71-43-2	Benzene	YES	YES	0.09906	0.2944	8.00E-05	4.45E-04								
25013-15-4	Benzene, Ethenylmethyl-	NO	YES												
92-87-5	Benzidine	YES	YES												
205-82-3	Benzo(j)fluoranthene	YES	NO												
207-08-9	Benzo(k)fluoranthene	YES	NO	0.00E+00	0.00E+00	4.26E-07	1.87E-06								
50-32-8	Benzo[a]pyrene	YES	NO	0.00E+00	0.00E+00	4.80E-07	2.10E-06								
205-99-2	Benzo[b]fluoranthene	YES	NO	0.00E+00	0.00E+00	4.26E-07	1.87E-06								
100-44-7	Benzyl chloride	YES	YES												
7440-41-7	Beryllium	YES	NO	5.60E-04	7.65E-04	1.20E-04	1.50E-04								
0-00-3	Beryllium Compounds	YES	NO												
108-60-1	Bis(2-chloro-1-methylethyl)ether	NO	YES												
117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)	YES	YES												
542-88-1	Bis(chloromethyl)ether	YES	YES												
7440-42-8	Boron	NO	NO												
7637-07-2	Boron trifluoride	NO	NO												

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
7440-38-2	Arsenic									0.027405		
0-00-2	Arsenic Compounds									0		
1327-53-3	Arsenic Trioxide									0		
7784-42-1	Arsine									0		
1332-21-4	Asbestos									0		
7440-39-3	Barium											
00-03-0	Barium Compounds											
56-55-3	Benz[a]anthracene									0.00000517		
88-74-4	Benzenamine, 2-Nitro-											
71-43-2	Benzene									0.294845	0.294845	
25013-15-4	Benzene, Ethenylmethyl-										0	
92-87-5	Benzidine									0	0	
205-82-3	Benzo(j)fluoranthene									0		
207-08-9	Benzo(k)fluoranthene									0.00000187		
50-32-8	Benzo[a]pyrene									0.0000021		
205-99-2	Benzo[b]fluoranthene									0.00000187		
100-44-7	Benzyl chloride									0	0	
7440-41-7	Beryllium									0.000915		
0-00-3	Beryllium Compounds									0		
108-60-1	Bis(2-chloro-1-methylethyl)ether										0	
117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)									0	0	
542-88-1	Bis(chloromethyl)ether									0	0	
7440-42-8	Boron											
7637-07-2	Boron trifluoride											

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
75-25-2	Bromoform	YES	YES												
106-99-0	Butadiene, 1,3-	YES	YES	0.02882	0.03602	0.00E+00	0.00E+00								
111-76-2	Butyl Cellosolve (ethylene glycol monobutyl ether)	YES	YES												
7440-43-9	Cadmium	YES	NO	8.64E-03	1.19E-02	1.20E-04	3.40E-04								
0-00-4	Cadmium Compounds	YES	NO												
75-15-0	Carbon disulfide	YES	NO												
56-23-5	Carbon tetrachloride	YES	YES												
111-15-9	Cellosolve Acetate (ethylene glycol monoethyle ether acetate)	YES	YES												
57-74-9	Chlordane	YES	NO												
108171-26-2	Chlorinated Paraffins (C12, 60% Chlorine)	NO	YES												
7782-50-5	Chlorine	YES	NO												
10049-04-4	Chlorine Oxide (ClO ₂)	NO	NO												
75-68-3	Chloro-1,1-difluoroethane, 1-(HCFC-142b)	NO	NO												
532-27-4	Chloroacetophenone, 2-	YES	YES												
108-90-7	Chlorobenzene	YES	YES												
510-15-6	Chlorobenzilate	YES	YES												
75-45-6	Chlorodifluoromethane (HCFC-22)	NO	NO												
67-66-3	Chloroform	YES	YES												
95-83-0	Chloro-o-phenylenediamine, 4-	NO	YES												
95-69-2	Chloro-o-toluidine, p-	NO	YES												
76-06-2	Chloropicrin	NO	YES												
126-99-8	Chloroprene	YES	YES												
75-29-6	Chloropropane, 2-	NO	YES												
18540-29-9	Chromic acid mists and dissolved Cr(VI) aerosols	YES	NO												

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
75-25-2	Bromoform									0	0	
106-99-0	Butadiene, 1,3-									0.03602	0.03602	
111-76-2	Butyl Cellosolve (ethylene glycol monobutyl ether)									0	0	
7440-43-9	Cadmium									0.0122		
0-00-4	Cadmium Compounds									0		
75-15-0	Carbon disulfide									0		
56-23-5	Carbon tetrachloride									0	0	
111-15-9	Cellosolve Acetate (ethylene glycol monoethyle ether acetate)									0	0	
57-74-9	Chlordane									0		
108171-26-2	Chlorinated Paraffins (C12, 60% Chlorine)									0		
7782-50-5	Chlorine									0		
10049-04-4	Chlorine Oxide (ClO2)											
75-68-3	Chloro-1,1-difluoroethane, 1- (HCFC-142b)											
532-27-4	Chloroacetophenone, 2-									0	0	
108-90-7	Chlorobenzene									0	0	
510-15-6	Chlorobenzilate									0	0	
75-45-6	Chlorodifluoromethane (HCFC-22)											
67-66-3	Chloroform									0	0	
95-83-0	Chloro-o-phenylenediamine, 4-									0		
95-69-2	Chloro-o-toluidine, p-									0		
76-06-2	Chloropicrin									0		
126-99-8	Chloroprene									0	0	
75-29-6	Chloropropane, 2-									0		
18540-29-9	Chromic acid mists and dissolved Cr(VI) aerosols									0		

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
18540-29-9	Chromium (Hexavalent) (particulate)	YES	NO	0.01981	0.02717	1.20E-04	3.95E-04								
0-00-5	Chromium Compounds	YES	NO												
218-01-9	Chrysene (Benzo(a)phenanthrene)	YES	NO	0.00E+00	0.00E+00	6.85E-07	3.00E-06								
8007-45-2	Coal Tar	YES	NO												
7440-48-4	Cobalt	YES	NO	0.00E+00	0.00E+00	3.36E-06	1.47E-05								
0-00-6	Cobalt Compounds	YES	NO												
0-00-7	Coke Oven Emissions	YES	NO												
7440-50-8	Copper	NO	NO	0.00E+00	0.00E+00	2.40E-04	1.05E-03								
00-03-1	Copper Compounds	NO	NO												
120-71-8	Cresidine, p-	NO	NO												
108-39-4	Cresol, m-	YES	YES												
95-48-7	Cresol, o-	YES	YES												
106-44-5	Cresol, p-	YES	YES												
1319-77-3	Cresols/Cresylic acid (isomers and mixture)	YES	YES												
98-82-8	Cumene	YES	YES												
135-20-6	Cupferron	NO	YES												
57-12-5	Cyanide (Cyanide ion, Inorganic cyanides, Isocyanide)	YES	NO												
0-00-8	Cyanide Compounds	YES	NO												
542-92-7	Cyclopentadiene	NO	YES												
50-29-3	DDT	NO	NO												
615-05-4	Diaminoanisole, 2,4-	NO	YES												
103-33-3	Diazene, Diphenyl	YES	YES												
226-36-8	Dibenz(a,h)acridine	YES	YES												
224-42-0	Dibenz(a,j)acridine	YES	YES												

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
18540-29-9	Chromium (Hexavalent) (particulate)									0.027565		
0-00-5	Chromium Compounds									0		
218-01-9	Chrysene (Benzo(a)phenanthrene)									0.000003		
8007-45-2	Coal Tar									0		
7440-48-4	Cobalt									0.0000147		
0-00-6	Cobalt Compounds									0		
0-00-7	Coke Oven Emissions									0		
7440-50-8	Copper											
00-03-1	Copper Compounds											
120-71-8	Cresidine, p-											
108-39-4	Cresol, m-									0	0	
95-48-7	Cresol, o-									0	0	
106-44-5	Cresol, p-									0	0	
1319-77-3	Cresols/Cresylic acid (isomers and mixture)									0	0	
98-82-8	Cumene									0	0	
135-20-6	Cupferron										0	
57-12-5	Cyanide (Cyanide ion, Inorganic cyanides, Isocyanide)									0		
0-00-8	Cyanide Compounds									0		
542-92-7	Cyclopentadiene										0	
50-29-3	DDT											
615-05-4	Diaminoanisole, 2,4-										0	
103-33-3	Diazene, Diphenyl									0	0	
226-36-8	Dibenz(a,h)acridine									0	0	
224-42-0	Dibenz(a,j)acridine									0	0	

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
53-70-3	Dibenz[a,h]anthracene	YES	YES	0.00E+00	0.00E+00	4.81E-07	2.11E-06								
192-65-4	Dibenz(a,e)pyrene	YES	YES												
189-64-0	Dibenz(a,h)pyrene	YES	YES												
191-30-0	Dibenzo(a,l)pyrene	YES	YES												
194-59-2	Dibenzo(c,g)carbazole, 7H-	YES	YES												
189-55-9	Dibenzo[a,i]pyrene	YES	YES												
132-64-9	Dibenzofurans	YES	NO												
96-12-8	Dibromo-3-chloropropane, 1,2-	YES	YES												
764-41-0	Dichloro-2-butene, 1,4-	NO	YES												
106-46-7	Dichlorobenzene(p), 1,4-	YES	YES												
95-50-1	Dichlorobenzene, 1,2-	NO	YES												
25321-22-6	Dichlorobenzenes	Some	YES	0.00E+00	0.00E+00	4.80E-05	2.10E-04								
91-94-1	Dichlorobenzidine, 3,3-	YES	YES												
75-71-8	Dichlorodifluoromethane (CFC-12)	NO	NO												
111-44-4	Dichloroethyl ether (Bis(2-chloroethyl)ethe	YES	YES												
75-35-4	Dichloroethylene (1,1-) (Vinylidene chloride)	YES	YES												
542-75-6	Dichloropropene, 1,3-	YES	YES												
62-73-7	Dichlorvos	YES	YES												
77-73-6	Dicyclopentadiene	NO	YES												
60-57-1	Dieldrin	NO	NO												
0-02-4	Diesel exhaust particulate	NO	NO												
111-42-2	Diethanolamine	YES	YES												
112-34-5	Diethylene Glycol Monobutyl Ether	YES	YES												
75-37-6	Difluoroethane, 1,1-	NO	NO												

Emissions

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
53-70-3	Dibenz(a,h)anthracene									0.00000211	0.00000211	
192-65-4	Dibenzo(a,e)pyrene									0	0	
189-64-0	Dibenzo(a,h)pyrene									0	0	
191-30-0	Dibenzo(a,l)pyrene									0	0	
194-59-2	Dibenzo(c,g)carbazole, 7H-									0	0	
189-55-9	Dibenzo[a,i]pyrene									0	0	
132-64-9	Dibenzofurans									0		
96-12-8	Dibromo-3-chloropropane, 1,2-									0	0	
764-41-0	Dichloro-2-butene, 1,4-									0		
106-46-7	Dichlorobenzene(p), 1,4-									0	0	
95-50-1	Dichlorobenzene, 1,2-									0		
25321-22-6	Dichlorobenzenes									0.00021		
91-94-1	Dichlorobenzidene, 3,3-									0	0	
75-71-8	Dichlorodifluoromethane (CFC-12)											
111-44-4	Dichloroethyl ether (Bis(2-chloroethyl)ethe									0	0	
75-35-4	Dichloroethylene (1,1-) (Vinylidene chloride)									0	0	
542-75-6	Dichloropropene, 1,3-									0	0	
62-73-7	Dichlorvos									0	0	
77-73-6	Dicyclopentadiene									0		
60-57-1	Dieldrin											
0-02-4	Diesel exhaust particulate											
111-42-2	Diethanolamine									0	0	
112-34-5	Diethylene Glycol Monobutyl Ether									0	0	
75-37-6	Difluoroethane, 1,1-											

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
60-11-7	Dimethyl aminoazobenzene	YES	YES												
68-12-2	Dimethyl formamide	YES	YES												
108-01-0	Dimethylamino ethanol, 2-	NO	YES												
57-97-6	Dimethylbenz[a]anthracene, 7,12-	YES	YES												
42397-64-8	Dinitropyrene, 1,6- (BaP)	YES	YES												
42397-65-9	Dinitropyrene, 1,8- (BaP)	YES	YES												
121-14-2	Dinitrotoluene, 2,4-	YES	YES												
123-91-1	Dioxane, 1,4- (1,4-Diethyleneoxide)	YES	YES												
122-66-7	Diphenylhydrazine, 1,2-	YES	YES												
106-89-8	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	YES	YES												
106-88-7	Epoxybutane, 1,2-	YES	YES												
110-80-5	Ethoxyethanol, 2- (ethylene glycol monoethyl ether)	YES	YES												
100-41-4	Ethyl benzene	YES	YES	0.06	0.4228	0.00E+00	0.00E+00								
51-79-6	Ethyl carbamate (Urethane)	YES	YES												
75-00-3	Ethyl chloride (Chloroethane)	YES	YES												
106-93-4	Ethylene dibromide (Dibromoethane)	YES	YES												
107-06-2	Ethylene dichloride (1,2-Dichloroethane)	YES	YES												
107-21-1	Ethylene glycol	YES	YES												
75-21-8	Ethylene oxide	YES	YES												
96-45-7	Ethylene thiourea	YES	YES												
75-34-3	Ethyldiene dichloride (1,1-Dichloroethane)	YES	YES												
50-00-0	Formaldehyde	YES	YES	1.332	10.07	0.01381	0.03034								
98-01-1	Furancarboxaldehyde, 2-	NO	YES												
111-30-8	Glutaraldehyde	NO	YES												

Emissions

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
60-11-7	Dimethylaminoazobenzene									0	0	
68-12-2	Dimethyl formamide									0	0	
108-01-0	Dimethylamino ethanol, 2-										0	
57-97-6	Dimethylbenz[a]anthracene, 7,12-									0	0	
42397-64-8	Dinitropyrene, 1,6- (BaP)									0	0	
42397-65-9	Dinitropyrene, 1,8- (BaP)									0	0	
121-14-2	Dinitrotoluene, 2,4-									0	0	
123-91-1	Dioxane, 1,4- (1,4-Diethyleneoxide)									0	0	
122-66-7	Diphenylhydrazine, 1,2-									0	0	
106-89-8	Epichlorohydrin (1-Chloro-2,3-epoxypropane)									0	0	
106-88-7	Epoxybutane, 1,2-									0	0	
110-80-5	Ethoxyethanol, 2- (ethylene glycol monoethyl ether)									0	0	
100-41-4	Ethyl benzene									0.4228	0.4228	
51-79-6	Ethyl carbamate (Urethane)									0	0	
75-00-3	Ethyl chloride (Chloroethane)									0	0	
106-93-4	Ethylene dibromide (Dibromoethane)									0	0	
107-06-2	Ethylene dichloride (1,2-Dichloroethane)									0	0	
107-21-1	Ethylene glycol									0	0	
75-21-8	Ethylene oxide									0	0	
96-45-7	Ethylene thiourea									0	0	
75-34-3	Ethyldiene dichloride (1,1-Dichloroethane)									0	0	
50-00-0	Formaldehyde									10.10034	10.10034	
98-01-1	Furancarboxaldehyde, 2-										0	
111-30-8	Glutaraldehyde										0	

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
765-34-4	Glycidyl	NO	YES												
0-01-2	Glycol ethers	Some	YES												
76-44-8	Heptachlor	YES	YES												
1024-57-3	Heptachlor epoxide	NO	YES												
00-08-5	Heptachlorodibenzodioxin, All Isomers	YES	NO												
67562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	YES	NO												
55673-89-7	Heptachlorodibenzofuran, 1,2,3,4,7,8,9-	YES	NO												
00-08-4	Heptachlorodibenzofuran, All Isomers	YES	NO												
35822-46-9	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-	YES	NO												
118-74-1	Hexachlorobenzene	YES	YES												
87-68-3	Hexachlorobutadiene	YES	YES												
608-73-1	Hexachlorocyclohexane (technical grade)	NO	YES												
319-84-6	Hexachlorocyclohexane, alpha-	NO	YES												
319-85-7	Hexachlorocyclohexane, beta-1,2,3,4,5,6-	NO	YES												
77-47-4	Hexachlorocyclopentadiene	YES	YES												
00-08-3	Hexachlorodibenzodioxins, All Isomers	YES	NO												
70648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8	YES	NO												
57117-44-9	Hexachlorodibenzofuran, 1,2,3,6,7,8	YES	NO												
72918-21-9	Hexachlorodibenzofuran, 1,2,3,7,8,9	YES	NO												
60851-34-5	Hexachlorodibenzofuran, 2,3,4,6,7,8	YES	NO												
00-08-2	Hexachlorodibenzofurans, All Isomers	YES	NO												
39227-28-6	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	YES	NO												
57653-85-7	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	YES	NO												
19408-74-3	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-	YES	NO												

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)	16.9800635	14.8475998							
765-34-4	Glycidyl											0
0-01-2	Glycol ethers											0
76-44-8	Heptachlor											0 0
1024-57-3	Heptachlor epoxide											0
00-08-5	Heptachlorodibenzodioxin, All Isomers											0
67562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-											0
55673-89-7	Heptachlorodibenzofuran, 1,2,3,4,7,8,9-											0
00-08-4	Heptachlorodibenzofuran, All Isomers											0
35822-46-9	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-											0
118-74-1	Hexachlorobenzene											0 0
87-68-3	Hexachlorobutadiene											0 0
608-73-1	Hexachlorocyclohexane (technical grade)											0
319-84-6	Hexachlorocyclohexane, alpha-											0
319-85-7	Hexachlorocyclohexane, beta-1,2,3,4,5,6-											0
77-47-4	Hexachlorocyclopentadiene											0 0
00-08-3	Hexachlorodibenzodioxins, All Isomers											0
70648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8											0
57117-44-9	Hexachlorodibenzofuran, 1,2,3,6,7,8											0
72918-21-9	Hexachlorodibenzofuran, 1,2,3,7,8,9											0
60851-34-5	Hexachlorodibenzofuran, 2,3,4,6,7,8											0
00-08-2	Hexachlorodibenzofurans, All Isomers											0
39227-28-6	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-											0
57653-85-7	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-											0
19408-74-3	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-											0

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
67-72-1	Hexachloroethane	YES	YES												
822-06-0	Hexamethylene-1,6-diisocyanate	YES	YES												
110-54-3	Hexane	YES	YES	0.00E+00	0	7.16E-02	0.314								
302-01-2	Hydrazine	YES	YES												
10034-93-2	Hydrazine sulfate	NO	NO												
7647-01-0	Hydrochloric acid	YES	NO												
74-90-8	Hydrogen cyanide	YES	NO												
7664-39-3	Hydrogen fluoride (Hydrofluoric acid)	YES	NO												
7783-07-5	Hydrogen selenide	NO	NO												
7783-06-4	Hydrogen sulfide	NO	NO												
193-39-5	Indeno(1,2,3-cd)pyrene	YES	YES	0	0	6.16E-07	2.70E-06								
78-59-1	Isophorone	YES	YES												
67-63-0	Isopropyl alcohol	NO	YES												
7439-92-1	Lead - please input lead emissions in criteria pollutant section	YES	NO	0.02521	0.03458	0.00036	0.000535	0	0	0	0	0	0	0	0
7758-97-6	Lead Chromate	YES	NO												
0-01-3	Lead Compounds	YES	NO												
58-89-9	Lindane (all isomers)	YES	NO												
00-07-8	m- and p-Xylenes	YES	YES												
108-31-6	Maleic anhydride	YES	YES												
7439-96-5	Manganese	YES	NO	1.423	1.951	2.40E-04	3.65E-04								
0-01-4	Manganese Compounds	YES	NO												
1313-13-9	Manganese Dioxide	YES	NO												
7439-97-6	Mercury	YES	NO	2.16E-03	2.97E-03	1.20E-04	1.95E-04								
0-02-3	Mercury Compounds	YES	NO												

Emissions

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
67-72-1	Hexachloroethane									0	0	
822-06-0	Hexamethylene-1,6-diisocyanate									0	0	
110-54-3	Hexane									0.314	0.314	
302-01-2	Hydrazine									0	0	
10034-93-2	Hydrazine sulfate											
7647-01-0	Hydrochloric acid									0		
74-90-8	Hydrogen cyanide									0		
7664-39-3	Hydrogen fluoride (Hydrofluoric acid)									0		
7783-07-5	Hydrogen selenide											
7783-06-4	Hydrogen sulfide											
193-39-5	Indeno(1,2,3-cd)pyrene									0.0000027	0.0000027	
78-59-1	Isophorone									0	0	
67-63-0	Isopropyl alcohol									0		
7439-92-1	Lead - please input lead emissions in criteria pollutant section	0	0	0	0	0	0	0	0	0.035115		
7758-97-6	Lead Chromate									0		
0-01-3	Lead Compounds									0		
58-89-9	Lindane (all isomers)									0		
00-07-8	m- and p-Xylenes									0	0	
108-31-6	Maleic anhydride									0	0	
7439-96-5	Manganese									1.951365		
0-01-4	Manganese Compounds									0		
1313-13-9	Manganese Dioxide									0		
7439-97-6	Mercury									0.00316		
0-02-3	Mercury Compounds									0		

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
126-98-7	Methacrylonitrile	NO	YES												
67-56-1	Methanol	YES	YES												
109-86-4	Methoxyethanol, 2- (ethylene glycol monomethyl ether EGME)	YES	YES												
74-83-9	Methyl bromide (Bromomethane)	YES	YES												
110-49-6	Methyl Cellosolve Acetate	YES	YES												
74-87-3	Methyl chloride (Chloromethane)	YES	YES												
71-55-6	Methyl chloroform (1,1,1-Trichloroethane)	YES	NO												
108-87-2	Methyl cyclohexane	NO	YES												
78-93-3	Methyl ethyl ketone (2-Butanone)	YES	YES												
108-10-1	Methyl isobutyl ketone (Hexone)	YES	YES												
624-83-9	Methyl isocyanate	YES	YES												
80-62-6	Methyl methacrylate	YES	YES												
1634-04-4	Methyl tert butyl ether	YES	YES												
56-49-5	Methylcholanthrene, 3-	YES	YES												
3697-24-3	Methylchrysene, 5-	YES	YES												
101-14-4	Methylene bis(2-chloroaniline), 4,4-	YES	YES												
75-09-2	Methylene chloride (Dichloromethane)	YES	NO												
101-68-8	Methylene diphenyl diisocyanate (MDI)	YES	YES												
101-77-9	Methylenedianiline, 4,4-	YES	YES												
75-86-5	Methyl lactonitrile, 2-	NO	YES												
90-94-8	Michler's ketone	NO	YES												
10595-95-6	N- Nitrosomethylmethamphetamine	?	YES												
91-20-3	Naphthalene	YES	YES	6.30E-02	1.04E-01	2.00E-05	1.05E-04								
7440-02-0	Nickel	?	Yes	8.28E-03	0.01136	1.20E-04	5.15E-04								

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
126-98-7	Methacrylonitrile											0
67-56-1	Methanol										0	0
109-86-4	Methoxyethanol, 2- (ethylene glycol monomethyl ether EGME)										0	0
74-83-9	Methyl bromide (Bromomethane)										0	0
110-49-6	Methyl Cellosolve Acetate										0	0
74-87-3	Methyl chloride (Chloromethane)										0	0
71-55-6	Methyl chloroform (1,1,1-Trichloroethane)										0	
108-87-2	Methyl cyclohexane											
78-93-3	Methyl ethyl ketone (2-Butanone)										0	0
108-10-1	Methyl isobutyl ketone (Hexone)										0	0
624-83-9	Methyl isocyanate										0	0
80-62-6	Methyl methacrylate										0	0
1634-04-4	Methyl tert butyl ether										0	0
56-49-5	Methylcholanthrene, 3-										0	0
3697-24-3	Methylchrysene, 5-										0	0
101-14-4	Methylene bis(2-chloroaniline), 4,4-										0	0
75-09-2	Methylene chloride (Dichloromethane)										0	
101-68-8	Methylene diphenyl diisocyanate (MDI)										0	0
101-77-9	Methylenedianiline, 4,4-										0	0
75-86-5	Methyl lactonitrile, 2-											0
90-94-8	Michler's ketone											0
10595-95-6	N- Nitrosomethylmethamphetamine											0
91-20-3	Naphthalene									0.103705	0.103705	
7440-02-0	Nickel										0.011875	

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
0-01-5	Nickel Compounds	YES	NO												
1313-99-1	Nickel oxide	YES	NO												
0-02-5	Nickel refinery dust from the pyrometallurgical process	YES	NO												
12035-72-2	Nickel sulfide (NI3S2)	YES	NO												
7697-37-2	Nitric acid	NO	NO												
602-87-9	Nitroacenaphthene, 5-	YES	YES												
98-95-3	Nitrobenzene	YES	YES												
7496-02-8	Nitrochrysene, 6-	YES	YES												
607-57-8	Nitrofluorene, 2-	YES	YES												
10102-44-0	Nitrogen oxide (NO2)-input NOx emissions with criteria pollutants	NO	NO	51.85	91.71	3.89	7.86	0	0	0	0	0	0	0	0
79-46-9	Nitropropane, 2-	YES	YES												
5522-43-0	Nitropyrene, 1-	YES	YES												
57835-92-4	Nitropyrene, 4-	YES	YES												
156-10-5	Nitrosodiphenylamine, p-	NO	YES												
55-18-5	N-Nitrosodiethylamine	NO	YES												
62-75-9	N-Nitrosodimethylamine	YES	YES												
924-16-3	N-Nitrosodi-n-butylamine	NO	YES												
621-64-7	N-Nitrosodi-n-propylamine	NO	YES												
86-30-6	N-Nitrosodiphenylamine	NO	YES												
59-89-2	N-Nitrosomorpholine	YES	YES												
100-75-4	N-Nitrosopiperidine	NO	0												
39001-02-0	Octachlorodibenzofuran, 1,2,3,4,5,6,7,8	YES	NO												
3268-87-9	Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8-	YES	NO												
00-08-1	Pentachlorodibenzodioxins, All Isomers	YES	NO												

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)	16.9800635	14.8475998							
0-01-5	Nickel Compounds									0		
1313-99-1	Nickel oxide									0		
0-02-5	Nickel refinery dust from the pyrometallurgical process									0		
12035-72-2	Nickel sulfide (NI3S2)									0		
7697-37-2	Nitric acid											
602-87-9	Nitroacenaphthene, 5-									0	0	
98-95-3	Nitrobenzene									0	0	
7496-02-8	Nitrochrysene, 6-									0	0	
607-57-8	Nitrofluorene, 2-									0	0	
10102-44-0	Nitrogen oxide (NO2)-input NOx emissions with criteria pollutants	0	0	0	0	0	0	0	0			
79-46-9	Nitropropane, 2-									0	0	
5522-43-0	Nitropyrene, 1-									0	0	
57835-92-4	Nitropyrene, 4-									0	0	
156-10-5	Nitrosodiphenylamine, p-									0		
55-18-5	N-Nitrosodiethylamine										0	
62-75-9	N-Nitrosodimethylamine									0	0	
924-16-3	N-Nitrosodi-n-butylamine										0	
621-64-7	N-Nitrosodi-n-propylamine										0	
86-30-6	N-Nitrosodiphenylamine										0	
59-89-2	N-Nitrosomorpholine									0	0	
100-75-4	N-Nitrosopiperidine											
39001-02-0	Octachlorodibenzofuran, 1,2,3,4,5,6,7,8									0		
3268-87-9	Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8-									0		
00-08-1	Pentachlorodibenzodioxins, All Isomers									0		

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
57117-41-6	Pentachlorodibenzofuran, 1,2,3,7,8-	YES	NO												
57117-31-4	Pentachlorodibenzofuran, 2,3,4,7,8-	YES	NO												
00-09-0	Pentachlorodibenzofurans, All Isomers	YES	NO												
40321-76-4	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	YES	NO												
87-86-5	Pentachlorophenol	YES	YES												
00-07-7	Petroleum Hydrocarbons, Aliphatic (C7 - C11)	NO	YES												
108-95-2	Phenol	YES	YES												
75-44-5	Phosgene	YES	0												
7803-51-2	Phosphine	YES	NO												
7664-38-2	Phosphoric acid	NO	NO												
7723-14-0	Phosphorus	YES	NO												
85-44-9	Phthalic anhydride	YES	YES												
1336-36-3	Polychlorinated biphenyls (Aroclors)	YES	YES												
00-05-0	Polychlorinated Dibenzodioxins, Total	YES	NO												
00-05-1	Polychlorinated Dibenzofurans, Total	YES	NO												
00-08-0	Polychlorinated Dibenzo-P-Dioxins And Furans, Total	YES	NO												
130498-29-2	Polycyclic Aromatic Hydrocarbons (PAH)	YES	NO	9.55E-03	2.43E-02	0.00E+00	0.00E+00								
00-01-7	Polycyclic Organic Matter (POM)	YES	YES	0	0	9.26E-04	1.07E-03								
9016-87-9	Polymeric diphenylmethane diisocyanate	NO	YES												
7758-01-2	Potassium bromate	NO	NO												
1120-71-4	Propane sulfone, 1,3-	YES	0												
1115-07-1	Propylene	NO	YES												
78-87-5	Propylene dichloride (1,2-Dichloropropane)	YES	YES												
107-98-2	Propylene Glycol Monomethyl Ether	YES	YES												

Emissions

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)	16.9800635	14.8475998							
57117-41-6	Pentachlorodibenzofuran, 1,2,3,7,8-									0		
57117-31-4	Pentachlorodibenzofuran, 2,3,4,7,8-									0		
00-09-0	Pentachlorodibenzofurans, All Isomers									0		
40321-76-4	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-									0		
87-86-5	Pentachlorophenol									0	0	
00-07-7	Petroleum Hydrocarbons, Aliphatic (C7 - C11)										0	
108-95-2	Phenol									0	0	
75-44-5	Phosgene									0		
7803-51-2	Phosphine									0		
7664-38-2	Phosphoric acid											
7723-14-0	Phosphorus									0		
85-44-9	Phthalic anhydride									0	0	
1336-36-3	Polychlorinated biphenyls (Aroclors)									0	0	
00-05-0	Polychlorinated Dibenzodioxins, Total									0		
00-05-1	Polychlorinated Dibenzofurans, Total									0		
00-08-0	Polychlorinated Dibenzo-P-Dioxins And Furans, Total									0		
130498-29-2	Polycyclic Aromatic Hydrocarbons (PAH)									0.0243		
00-01-7	Polycyclic Organic Matter (POM)									0.00107	0.00107	
9016-87-9	Polymeric diphenylmethane diisocyanate										0	
7758-01-2	Potassium bromate											
1120-71-4	Propane sultone, 1,3-									0		
1115-07-1	Propylene										0	
78-87-5	Propylene dichloride (1,2-Dichloropropane)									0	0	
107-98-2	Propylene Glycol Monomethyl Ether									0	0	

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
75-56-9	Propylene oxide	YES	YES	5.44E-02	0.3832	0.00E+00	0.00E+00								
930-55-2	Pyrrolidine, 1-Nitroso-	NO	YES												
7784-49-2	Selenium	YES	NO	4.50E-02	0.06174	6.00E-04	7.55E-04								
0-01-9	Selenium Compounds	YES	NO												
7440-22-4	Silver	NO	NO												
00-03-2	Silver Compounds	NO	NO												
1310-73-2	Sodium hydroxide	NO	NO												
7789-06-2	Strontium chromate	YES	NO												
100-42-5	Styrene	YES	YES												
96-09-3	Styrene oxide	YES	YES												
14808-79-8	Sulfates	NO	NO												
7664-93-9	Sulfuric acid (aerosol forms only)	NO	NO												
8014-95-7	Sulfuric Acid mixture w. sulfur trioxide (oleum)	NO	NO												
00-09-1	TCDD Equivalents, 2,3,7,8-	YES	NO												
00-08-8	Tetrachlorodibenzodioxins, All Isomers	YES	NO												
00-08-9	Tetrachlorodibenzodioxins, Other (Excluding 2,3,7,8)	YES	NO												
51207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-	YES	NO												
00-08-6	Tetrachlorodibenzofurans, All Isomers	YES	NO												
00-08-7	Tetrachlorodibenzofurans, Other (Excluding 2,3,7,8)	YES	NO												
1746-01-6	Tetrachlorodibenzo-p-dioxin, 2,3,7,8	YES	NO												
630-20-6	Tetrachloroethane, 1,1,1,2-	NO	YES												
79-34-5	Tetrachloroethane, 1,1,2,2-	YES	YES												
127-18-4	Tetrachloroethylene (Perchloroethylene)	YES	NO												
25167-83-3	Tetrachlorophenol	NO	YES												

Emissions

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)									
										16.9800635	14.8475998	
75-56-9	Propylene oxide									0.3832	0.3832	
930-55-2	Pyrrolidine, 1-Nitroso-										0	
7784-49-2	Selenium									0.062495		
0-01-9	Selenium Compounds									0		
7440-22-4	Silver											
00-03-2	Silver Compounds											
1310-73-2	Sodium hydroxide											
7789-06-2	Strontium chromate									0		
100-42-5	Styrene									0	0	
96-09-3	Styrene oxide									0	0	
14808-79-8	Sulfates											
7664-93-9	Sulfuric acid (aerosol forms only)											
8014-95-7	Sulfuric Acid mixture w. sulfur trioxide (oleum)											
00-09-1	TCDD Equivalents, 2,3,7,8-									0		
00-08-8	Tetrachlorodibenzodioxins, All Isomers									0		
00-08-9	Tetrachlorodibenzodioxins, Other (Excluding 2,3,7,8)									0		
51207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-									0		
00-08-6	Tetrachlorodibenzofurans, All Isomers									0		
00-08-7	Tetrachlorodibenzofurans, Other (Excluding 2,3,7,8)									0		
1746-01-6	Tetrachlorodibenzo-p-dioxin, 2,3,7,8									0		
630-20-6	Tetrachloroethane, 1,1,1,2-										0	
79-34-5	Tetrachloroethane, 1,1,2,2-									0	0	
127-18-4	Tetrachloroethylene (Perchloroethylene)									0		
25167-83-3	Tetrachlorophenol									0	0	

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
811-97-2	Tetrafluoroethane, 1,1,1,2-	NO	NO												
62-55-5	Thioacetamide	NO	0												
108-88-3	Toluene	YES	YES	2.44E-01	1.72E+00	1.78E-03	2.83E-03								
95-80-7	Toluene diamine, 2,4-	YES	YES												
584-84-9	Toluene diisocyanate, 2,4-	YES	YES												
91-08-7	Toluene-2,6-diisocyanate	NO	YES												
26471-62-5	Toluenediisocyanate (mixed isomers)	Some	YES												
8001-35-2	Toxaphene (chlorinated camphene)	YES	YES												
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-(Freon 113)	NO	NO												
120-82-1	Trichlorobenzene, 1,2,4-	YES	YES												
79-00-5	Trichloroethane, 1,1,2-	YES	YES												
79-01-6	Trichloroethylene	YES	YES												
75-69-4	Trichlorofluoromethane (CFC-11)	NO	NO												
88-06-2	Trichlorophenol, 2,4,6-	YES	YES												
121-44-8	Triethylamine	YES	YES												
1314-62-1	Vanadium oxide, (V2O5)	NO	NO												
108-05-4	Vinyl acetate	YES	YES												
593-60-2	Vinyl bromide	YES	YES												
75-01-4	Vinyl chloride	YES	YES												
1330-20-7	Xylenes	YES	YES	0.12006	0.8456	3.00E-05	4.00E-05								
108-38-3	Xylenes, m-	YES	YES												
95-47-6	Xylenes, o-	YES	YES												
106-42-3	Xylenes, p-	YES	YES												
7440-66-6	Zinc	NO	NO	0.00E+00	0.00E+00	1.16E-03	5.08E-03								

Emissions

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)	16.9800635	14.8475998							
811-97-2	Tetrafluoroethane, 1,1,1,2-											
62-55-5	Thioacetamide											
108-88-3	Toluene									1.72083	1.72083	
95-80-7	Toluene diamine, 2,4-									0	0	
584-84-9	Toluene diisocyanate, 2,4-									0	0	
91-08-7	Toluene-2,6-diisocyanate											0
26471-62-5	Toluenediisocyanate (mixed isomers)											0
8001-35-2	Toxaphene (chlorinated camphene)									0	0	
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-(Freon 113)											
120-82-1	Trichlorobenzene, 1,2,4-									0	0	
79-00-5	Trichloroethane, 1,1,2-									0	0	
79-01-6	Trichloroethylene									0	0	
75-69-4	Trichlorofluoromethane (CFC-11)											
88-06-2	Trichlorophenol, 2,4,6-									0	0	
121-44-8	Triethylamine									0	0	
1314-62-1	Vanadium oxide, (V2O5)											
108-05-4	Vinyl acetate									0	0	
593-60-2	Vinyl bromide									0	0	
75-01-4	Vinyl chloride									0	0	
1330-20-7	Xylenes									0.84564	0.84564	
108-38-3	Xylenes, m-									0	0	
95-47-6	Xylenes, o-									0	0	
106-42-3	Xylenes, p-									0	0	
7440-66-6	Zinc											

Emissions

Inputs may be made in yellow cells

Screening Date:
 AQ Facility ID No.:
 AQ File No.:
 Facility Name:
 Facility Location:
 User Title:

Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

CAS # or MPCA #	Chemical Name	HAP	VOC	Stack(s)#1		Stack(s)#2		Stack(s)#3		Stack(s)#4		Stack(s)#5		Stack(s)#6	
				Hourly Emissions (lb/hr)	Annual Emissions (tpy)										
13530-65-9	Zinc chromate	YES	NO												
00-03-3	Zinc Compounds	NO	NO												

Emissions

Inputs may be made in yellow cells

CAS # or MPCA #	Chemical Name	Stack(s)#7		Stack(s)#8		Stack(s)#9		Stack(s)#10		SUM OF HAPS (TPY)	SUM OF VOCS (TPY)	Criteria Pollutant Sums
		Hourly Emissions (lb/hr)	Annual Emissions (tpy)	16.9800635	14.8475998							
13530-65-9	Zinc chromate									0		
00-03-3	Zinc Compounds											

Inputs may be made in yellow cells (values in orange cells used as inputs to batch screening model run separately)

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Lookup table	notes	Stack(s)#1	Stack(s)#2	Stack(s)#3	Stack(s)#4	Stack(s)#5	Stack(s)#6	Stack(s)#7	Stack(s)#8	Stack(s)#9	Stack(s)#10
Stack height (m)	required for lookup (1-99 m)										
Distance to property line or receptor (m)	required for lookup (10-10000m)										
1-hr dispersion value from Table	automatic lookup										
3-hr dispersion value from Table	automatic lookup										
8-hr dispersion value from Table	automatic lookup										
24-hr dispersion value from Table	automatic lookup										
Monthly dispersion value from Table	automatic lookup										
Annual dispersion value from Table	automatic lookup										
Batch Process	notes	Stack(s)#1	Stack(s)#2	Stack(s)#3	Stack(s)#4	Stack(s)#5	Stack(s)#6	Stack(s)#7	Stack(s)#8	Stack(s)#9	Stack(s)#10
1-hr dispersion value from batch process or other screening procedure	enter dispersion values manually	2.205	37.98								
3-hr dispersion value from batch process or other screening procedure	enter dispersion values manually	1.893	27.84								
8-hr dispersion value from batch process or other screening procedure	enter dispersion values manually	0.9916	20.11								
24-hr dispersion value from batch process or other screening procedure	enter dispersion values manually	0.4041	13.03								
Monthly dispersion value from batch process or other screening procedure	enter dispersion values manually	0.03877	2.946								
Annual dispersion value from batch process or other screening procedure	enter dispersion values manually	0.01547	1.454								

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Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

cas # or MPCA #	Chemical Name	Screening Inhalation Hazard Quotients and Cancer Risks for Individual Substances				Chronic Screening Non-inhalation Pathway Hazard Quotients and Cancer Risks for Individual Substances				Chronic Screening Total Hazard Quotients and Cancer Risks (Inhalation + Non-inhalation) for Individual Substances			
		Acute ISHQ	Subchronic Noncancer ISHQ	Chronic Noncancer ISHQ	ISIR(ca)	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer
	Total	1.3E-01	1.8E-03	1.2E-02	6.4E-07	3.2E-05	2.2E-05	0.0E+00	7.9E-08	1.2E-02	2.3E-05	1.2E-02	7.2E-07
75-07-0	Acetaldehyde	0.0E+00	0.0E+00	2.6E-05	5.2E-10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.6E-05	5.2E-10	2.6E-05	5.2E-10
60-35-5	Acetamide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-05-8	Acetonitrile	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-02-8	Acrolein	1.8E-02	4.7E-04	1.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.9E-03	0.0E+00	1.9E-03	0.0E+00
79-06-1	Acrylamide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-10-7	Acrylic acid	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-13-1	Acrylonitrile	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-07-9	Aldehydes	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
309-00-2	Aldrin	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-05-1	Allyl chloride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
117-79-3	Aminoanthraquinone, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7664-41-7	Ammonia	3.1E-03	1.1E-03	5.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.3E-04	0.0E+00	5.3E-04	0.0E+00
62-53-3	Aniline	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-36-0	Antimony	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-00-1	Antimony Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1309-64-4	Antimony trioxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
140-57-8	Aramite	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

cas # or MPCA #	Chemical Name	Screening Inhalation Hazard Quotients and Cancer Risks for Individual Substances				Chronic Screening Non-inhalation Pathway Hazard Quotients and Cancer Risks for Individual Substances				Chronic Screening Total Hazard Quotients and Cancer Risks (Inhalation + Non-inhalation) for Individual Substances			
		Acute ISHQ	Subchronic Noncancer ISHQ	Chronic Noncancer ISHQ	ISIR(ca)	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer
7440-38-2	Arsenic	3.3E-02	0.0E+00	7.3E-04	9.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.3E-04	9.4E-08	7.3E-04	9.4E-08
0-00-2	Arsenic Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1327-53-3	Arsenic Trioxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7784-42-1	Arsine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1332-21-4	Asbestos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-39-3	Barium	0.0E+00	1.3E-05	6.4E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.4E-05	0.0E+00	6.4E-05	0.0E+00
00-03-0	Barium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
56-55-3	Benz[a]anthracene	0.0E+00	0.0E+00	0.0E+00	2.4E-11	0.0E+00	2.4E-09	0.0E+00	6.3E-11	0.0E+00	2.4E-09	0.0E+00	8.6E-11
88-74-4	Benzenamine, 2-Nitro-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
71-43-2	Benzene	2.8E-05	0.0E+00	5.0E-06	1.2E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E-06	1.2E-09	5.0E-06	1.2E-09
25013-15-4	Benzene, Ethenylmethyl-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
92-87-5	Benzidine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
205-82-3	Benzo(j)fluoranthene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
207-08-9	Benzo(k)fluoranthene	0.0E+00	0.0E+00	0.0E+00	8.6E-12	0.0E+00	5.2E-09	0.0E+00	9.6E-12	0.0E+00	5.2E-09	0.0E+00	1.8E-11
50-32-8	Benzo[a]pyrene	0.0E+00	0.0E+00	0.0E+00	9.7E-11	0.0E+00	3.9E-08	0.0E+00	5.4E-11	0.0E+00	3.9E-08	0.0E+00	1.5E-10
205-99-2	Benzo[b]fluoranthene	0.0E+00	0.0E+00	0.0E+00	8.6E-12	0.0E+00	2.6E-09	0.0E+00	1.3E-11	0.0E+00	2.6E-09	0.0E+00	2.1E-11
100-44-7	Benzyl chloride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-41-7	Beryllium	0.0E+00	0.0E+00	3.3E-04	1.6E-08	0.0E+00	4.5E-08	0.0E+00	1.2E-08	3.3E-04	6.0E-08	3.3E-04	2.8E-08

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		Acute ISHQ	Subchronic Noncancer ISHQ	Chronic Noncancer ISHQ	ISIR(ca)	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer
0-00-3	Beryllium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-60-1	Bis(2-chloro-1-methylethyl)ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
542-88-1	Bis(chloromethyl)ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-42-8	Boron	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7637-07-2	Boron trifluoride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-25-2	Bromoform	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-99-0	Butadiene, 1,3-	0.0E+00	0.0E+00	8.0E-06	4.5E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.0E-06	4.5E-09	8.0E-06	4.5E-09
111-76-2	Butyl Cellosolve (ethylene glycol monobutyl ether)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-43-9	Cadmium	0.0E+00	0.0E+00	9.7E-04	3.5E-08	0.0E+00	3.5E-07	0.0E+00	6.6E-08	9.7E-04	3.9E-07	9.7E-04	1.0E-07
0-00-4	Cadmium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-15-0	Carbon disulfide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
56-23-5	Carbon tetrachloride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-15-9	Cellosolve Acetate (ethylene glycol monoethyle ether acetate)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57-74-9	Chlordane	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108171-26-2	Chlorinated Paraffins (C12, 60% Chlorine)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7782-50-5	Chlorine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10049-04-4	Chlorine Oxide (ClO2)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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		Acute ISHQ	Subchronic Noncancer ISHQ	Chronic Noncancer ISHQ	ISIR(ca)	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer
75-68-3	Chloro-1,1-difluoroethane, 1- (HCFC-142b)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
532-27-4	Chloroacetophenone, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-90-7	Chlorobenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
510-15-6	Chlorobenzilate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-45-6	Chlorodifluoromethane (HCFC-22)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
67-66-3	Chloroform	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-83-0	Chloro-o-phenylenediamine, 4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-69-2	Chloro-o-toluidine, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
76-06-2	Chloropicrin	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
126-99-8	Chloroprene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-29-6	Chloropropane, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
18540-29-9	Chromic acid mists and dissolved Cr(VI) aerosols	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
18540-29-9	Chromium (Hexavalent) (particulate)	0.0E+00	6.4E-05	2.9E-04	3.4E-07	0.0E+00	2.0E-06	0.0E+00	0.0E+00	2.9E-04	2.3E-06	2.9E-04	3.4E-07
0-00-5	Chromium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
218-01-9	Chrysene (Benzo(a)phenanthrene)	0.0E+00	0.0E+00	0.0E+00	1.4E-12	0.0E+00	2.8E-10	0.0E+00	4.4E-12	0.0E+00	2.8E-10	0.0E+00	5.8E-12
8007-45-2	Coal Tar	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-48-4	Cobalt	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-00-6	Cobalt Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

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0-00-7	Coke Oven Emissions	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-50-8	Copper	1.1E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-03-1	Copper Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
120-71-8	Cresidine, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-39-4	Cresol, m-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-48-7	Cresol, o-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-44-5	Cresol, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1319-77-3	Cresols/Cresylic acid (isomers and mixture)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
98-82-8	Cumene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
135-20-6	Cupferron	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57-12-5	Cyanide (Cyanide ion, Inorganic cyanides, Isocyanide)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-00-8	Cyanide Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
542-92-7	Cyclopentadiene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
50-29-3	DDT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
615-05-4	Diaminoanisole, 2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
103-33-3	Diazene, Diphenyl	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
226-36-8	Dibenz(a,h)acridine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
224-42-0	Dibenz(a,j)acridine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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Faribault Energy Park
FEP Combined Cycle Calcs

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53-70-3	Dibenz[a,h]anthracene	0.0E+00	0.0E+00	0.0E+00	1.1E-10	0.0E+00	4.2E-07	0.0E+00	7.3E-11	0.0E+00	4.2E-07	0.0E+00	1.8E-10
192-65-4	Dibenzo(a,e)pyrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
189-64-0	Dibenzo(a,h)pyrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
191-30-0	Dibenzo(a,l)pyrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
194-59-2	Dibenzo(c,g)carbazole, 7H-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
189-55-9	Dibenzo[a,i]pyrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
132-64-9	Dibenzofurans	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
96-12-8	Dibromo-3-chloropropane, 1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
764-41-0	Dichloro-2-butene, 1,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-46-7	Dichlorobenzene(p), 1,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-50-1	Dichlorobenzene, 1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
25321-22-6	Dichlorobenzenes	0.0E+00	0.0E+00	1.1E-08	9.7E-11	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-08	9.7E-11	1.1E-08	9.7E-11
91-94-1	Dichlorobenzidene, 3,3-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-71-8	Dichlorodifluoromethane (CFC-12)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-44-4	Dichloroethyl ether (Bis(2-chloroethyl)ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-35-4	Dichloroethylene (1,1-) (Vinylidene chloride)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
542-75-6	Dichloropropene, 1,3-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
62-73-7	Dichlorvos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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Faribault Energy Park
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77-73-6	Dicyclopentadiene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
60-57-1	Dieldrin	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-02-4	Diesel exhaust particulate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-42-2	Diethanolamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
112-34-5	Diethylene Glycol Monobutyl Ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-37-6	Difluoroethane, 1,1-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
60-11-7	Dimethyl aminoazobenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
68-12-2	Dimethyl formamide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-01-0	Dimethylamino ethanol, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57-97-6	Dimethylbenz[a]anthracene, 7,12-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
42397-64-8	Dinitropyrene, 1,6- (BaP)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
42397-65-9	Dinitropyrene, 1,8- (BaP)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
121-14-2	Dinitrotoluene, 2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
123-91-1	Dioxane, 1,4- (1,4-Diethyleneoxide)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
122-66-7	Diphenylhydrazine, 1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-89-8	Epiclorohydrin (I-Chloro-2,3-epoxypropane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-88-7	Epoxybutane, 1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
110-80-5	Ethoxyethanol, 2- (ethylene glycol monoethyl ether)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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100-41-4	Ethyl benzene	1.7E-06	0.0E+00	1.9E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.9E-07	0.0E+00	1.9E-07	0.0E+00
51-79-6	Ethyl carbamate (Urethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-00-3	Ethyl chloride (Chloroethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-93-4	Ethylene dibromide (Dibromoethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-06-2	Ethylene dichloride (1,2-Dichloroethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-21-1	Ethylene glycol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-21-8	Ethylene oxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
96-45-7	Ethylene thiourea	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-34-3	Ethyldiene dichloride (1,1-Dichloroethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
50-00-0	Formaldehyde	4.6E-03	0.0E+00	1.9E-03	7.5E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.9E-03	7.5E-08	1.9E-03	7.5E-08
98-01-1	Furancarboxaldehyde, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-30-8	Glutaraldehyde	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
765-34-4	Glycidyl	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-01-2	Glycol ethers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
76-44-8	Heptachlor	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1024-57-3	Heptachlor epoxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-5	Heptachlorodibenzodioxin, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
67562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

cas # or MPCA #	Chemical Name	Screening Inhalation Hazard Quotients and Cancer Risks for Individual Substances				Chronic Screening Non-inhalation Pathway Hazard Quotients and Cancer Risks for Individual Substances				Chronic Screening Total Hazard Quotients and Cancer Risks (Inhalation + Non-inhalation) for Individual Substances			
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55673-89-7	Heptachlorodibenzofuran, 1,2,3,4,7,8,9-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-4	Heptachlorodibenzofuran, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
35822-46-9	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
118-74-1	Hexachlorobenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
87-68-3	Hexachlorobutadiene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
608-73-1	Hexachlorocyclohexane (technical grade)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
319-84-6	Hexachlorocyclohexane, alpha-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
319-85-7	Hexachlorocyclohexane, beta-1,2,3,4,5,6-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
77-47-4	Hexachlorocyclopentadiene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-3	Hexachlorodibenzodioxins, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
70648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57117-44-9	Hexachlorodibenzofuran, 1,2,3,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
72918-21-9	Hexachlorodibenzofuran, 1,2,3,7,8,9-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
60851-34-5	Hexachlorodibenzofuran, 2,3,4,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-2	Hexachlorodibenzofurans, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
39227-28-6	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57653-85-7	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
19408-74-3	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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67-72-1	Hexachloroethane	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
822-06-0	Hexamethylene-1,6-diisocyanate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
110-54-3	Hexane	0.0E+00	1.3E-04	6.6E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.6E-06	0.0E+00	6.6E-06	0.0E+00
302-01-2	Hydrazine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10034-93-2	Hydrazine sulfate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7647-01-0	Hydrochloric acid	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
74-90-8	Hydrogen cyanide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7664-39-3	Hydrogen fluoride (Hydrofluoric acid)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7783-07-5	Hydrogen selenide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7783-06-4	Hydrogen sulfide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
193-39-5	Indeno(1,2,3-cd)pyrene	0.0E+00	0.0E+00	0.0E+00	1.2E-11	0.0E+00	7.5E-07	0.0E+00	4.5E-11	0.0E+00	7.5E-07	0.0E+00	5.7E-11
78-59-1	Isophorone	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
67-63-0	Isopropyl alcohol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7439-92-1	Lead	0.0E+00	0.0E+00	0.0E+00	4.5E-10	0.0E+00	8.7E-10	0.0E+00	0.0E+00	0.0E+00	1.3E-09	0.0E+00	4.5E-10
7758-97-6	Lead Chromate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-01-3	Lead Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
58-89-9	Lindane (all isomers)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-07-8	m- and p-Xylenes	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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108-31-6	Maleic anhydride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7439-96-5	Manganese	0.0E+00	0.0E+00	4.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.4E-03	0.0E+00	4.4E-03	0.0E+00
0-01-4	Manganese Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1313-13-9	Manganese Dioxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7439-97-6	Mercury	6.5E-04	6.6E-05	3.2E-05	0.0E+00	3.2E-05	0.0E+00	0.0E+00	0.0E+00	6.3E-05	0.0E+00	3.2E-05	0.0E+00
0-02-3	Mercury Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
126-98-7	Methacrylonitrile	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
67-56-1	Methanol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
109-86-4	Methoxyethanol, 2- (ethylene glycol monomethyl ether EGME)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
74-83-9	Methyl bromide (Bromomethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
110-49-6	Methyl Cellosolve Acetate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
74-87-3	Methyl chloride (Chloromethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
71-55-6	Methyl chloroform (1,1,1-Trichloroethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-87-2	Methyl cyclohexane	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
78-93-3	Methyl ethyl ketone (2-Butanone)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-10-1	Methyl isobutyl ketone (Hexone)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
624-83-9	Methyl isocyanate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
80-62-6	Methyl methacrylate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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1634-04-4	Methyl tert butyl ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
56-49-5	Methylcholanthrene, 3-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3697-24-3	Methylchrysene, 5-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
101-14-4	Methylene bis(2-chloroaniline), 4,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-09-2	Methylene chloride (Dichloromethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
101-68-8	Methylene diphenyl diisocyanate (MDI)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
101-77-9	Methylenedianiline, 4,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-86-5	Methyl lactonitrile, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
90-94-8	Michler's ketone	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10595-95-6	N- Nitrosomethyl ethylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
91-20-3	Naphthalene	8.8E-05	0.0E+00	5.6E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.6E-06	0.0E+00	5.6E-06	0.0E+00
7440-02-0	Nickel	2.6E-04	0.0E+00	5.3E-04	6.9E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.3E-04	6.9E-09	5.3E-04	6.9E-09
0-01-5	Nickel Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1313-99-1	Nickel oxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-02-5	Nickel refinery dust from the pyrometallurgical process	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12035-72-2	Nickel sulfide (NI3S2)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7697-37-2	Nitric acid	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
602-87-9	Nitroacenaphthene, 5-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

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98-95-3	Nitrobenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7496-02-8	Nitrochrysene, 6-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
607-57-8	Nitrofluorene, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10102-44-0	Nitrogen oxide (NO ₂)	7.0E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-46-9	Nitropropane, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5522-43-0	Nitropyrene, 1-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57835-92-4	Nitropyrene, 4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
156-10-5	Nitrosodiphenylamine, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
55-18-5	N-Nitrosodiethylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
62-75-9	N-Nitrosodimethylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
924-16-3	N-Nitrosodi-n-butylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
621-64-7	N-Nitrosodi-n-propylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
86-30-6	N-Nitrosodiphenylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
59-89-2	N-Nitrosomorpholine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
100-75-4	N-Nitrosopiperidine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
39001-02-0	Octachlorodibenzo-furan, 1,2,3,4,5,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3268-87-9	Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-1	Pentachlorodibenzodioxins, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

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57117-41-6	Pentachlorodibenzofuran, 1,2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57117-31-4	Pentachlorodibenzofuran, 2,3,4,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-09-0	Pentachlorodibenzofurans, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
40321-76-4	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
87-86-5	Pentachlorophenol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-07-7	Petroleum Hydrocarbons, Aliphatic (C7 - C11)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-95-2	Phenol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-44-5	Phosgene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7803-51-2	Phosphine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7664-38-2	Phosphoric acid	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7723-14-0	Phosphorus	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
85-44-9	Phthalic anhydride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1336-36-3	Polychlorinated biphenyls (Aroclors)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-05-0	Polychlorinated Dibenzodioxins, Total	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-05-1	Polychlorinated Dibenzofurans, Total	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-0	Polychlorinated Dibenzo-P-Dioxins And Furans, Total	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
130498-29-2	Polycyclic Aromatic Hydrocarbons (PAH)	0.0E+00	0.0E+00	0.0E+00	1.2E-08	0.0E+00	3.6E-06	0.0E+00	0.0E+00	0.0E+00	3.6E-06	0.0E+00	1.2E-08
00-01-7	Polycyclic Organic Matter (POM)	0.0E+00	0.0E+00	0.0E+00	4.9E-08	0.0E+00	1.5E-05	0.0E+00	0.0E+00	0.0E+00	1.5E-05	0.0E+00	4.9E-08

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Faribault Energy Park
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9016-87-9	Polymeric diphenylmethane diisocyanate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7758-01-2	Potassium bromate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1120-71-4	Propane sultone, 1,3-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
115-07-1	Propylene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
78-87-5	Propylene dichloride (1,2-Dichloropropane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-98-2	Propylene Glycol Monomethyl Ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-56-9	Propylene oxide	4.9E-06	1.4E-05	5.7E-06	6.3E-10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.7E-06	6.3E-10	5.7E-06	6.3E-10
930-55-2	Pyrrolidine, 1-Nitroso-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7784-49-2	Selenium	0.0E+00	0.0E+00	3.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-06	0.0E+00	3.0E-06	0.0E+00
0-01-9	Selenium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-22-4	Silver	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-03-2	Silver Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1310-73-2	Sodium hydroxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7789-06-2	Strontium chromate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
100-42-5	Styrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
96-09-3	Styrene oxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
14808-79-8	Sulfates	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7664-93-9	Sulfuric acid (aerosol forms only)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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8014-95-7	Sulfuric Acid mixture w. sulfur trioxide (oleum)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-09-1	TCDD Eqivalents, 2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-8	Tetrachlorodibenzodioxins, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-9	Tetrachlorodibenzodioxins, Other (Excluding 2,3,7,8)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
51207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-6	Tetrachlorodibenzofurans, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-7	Tetrachlorodibenzofurans, Other (Excluding 2,3,7,8)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1746-01-6	Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
630-20-6	Tetrachloroethane, 1,1,1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-34-5	Tetrachloroethane, 1,1,2,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
127-18-4	Tetrachloroethylene (Perchloroethylene)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
25167-83-3	Tetrachlorophenol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
811-97-2	Tetrafluoroethane, 1,1,1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
62-55-5	Thioacetamide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-88-3	Toluene	2.1E-06	0.0E+00	2.2E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.2E-06	0.0E+00	2.2E-06	0.0E+00
95-80-7	Toluene diamine, 2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
584-84-9	Toluene diisocyanate, 2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
91-08-7	Toluene-2,6-diisocyanate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on this Page**Screening Date:****AQ Facility ID No.:****AQ File No.:****Facility Name:****Facility Location:****User Title:**

0
0
0
Faribault Energy Park
Faribault Energy Park
FEP Combined Cycle Calcs

cas # or MPCA #	Chemical Name	Screening Inhalation Hazard Quotients and Cancer Risks for Individual Substances				Chronic Screening Non-inhalation Pathway Hazard Quotients and Cancer Risks for Individual Substances				Chronic Screening Total Hazard Quotients and Cancer Risks (Inhalation + Non-inhalation) for Individual Substances			
		Acute ISHQ	Subchronic Noncancer ISHQ	Chronic Noncancer ISHQ	ISIR(ca)	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer	Farmer Noncancer	Farmer Cancer	Resident Noncancer	Resident Cancer
26471-62-5	Toluenediisocyanate (mixed isomers)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8001-35-2	Toxaphene (chlorinated camphene)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-(Freon 113)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
120-82-1	Trichlorobenzene, 1,2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-00-5	Trichloroethane, 1,1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-01-6	Trichloroethylene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-69-4	Trichlorofluoromethane (CFC-11)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
88-06-2	Trichlorophenol, 2,4,6-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
121-44-8	Triethylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1314-62-1	Vanadium oxide, (V2O5)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-05-4	Vinyl acetate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
593-60-2	Vinyl bromide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-01-4	Vinyl chloride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1330-20-7	Xylenes	7.8E-07	0.0E+00	3.8E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-06	0.0E+00	3.8E-06	0.0E+00
108-38-3	Xylenes, m-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-47-6	Xylenes, o-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-42-3	Xylenes, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-66-6	Zinc	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1					Stack(s)#2				
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
SO2	SO2	3.5E+01	2.9E+01	8.1E+00	3.5E-01	1.6E-01	2.6E+01	2.2E+01	4.7E+00	1.3E-01	5.0E-02	9.8E+00	7.2E+00	3.4E+00	2.2E-01	1.1E-01
PM10	PM10	2.8E+02	2.4E+02	5.2E+01	6.6E-01	2.8E-01	2.7E+02	2.3E+02	5.0E+01	4.8E-01	1.9E-01	6.0E+00	4.4E+00	2.1E+00	1.8E-01	8.9E-02
PM2.5	PM2.5	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NOx	NOx	3.3E+01	2.6E+01	9.0E+00	7.7E-01	3.7E-01	1.4E+01	1.2E+01	2.6E+00	1.0E-01	4.1E-02	1.9E+01	1.4E+01	6.4E+00	6.7E-01	3.3E-01
CO	CO	3.5E+02	3.0E+02	6.9E+01	1.7E+00	7.6E-01	3.3E+02	2.8E+02	6.1E+01	6.3E-01	2.5E-01	2.3E+01	1.7E+01	7.8E+00	1.0E+00	5.1E-01
Pb	Pb	8.7E-03	7.3E-03	1.9E-03	8.4E-05	3.8E-05	7.0E-03	6.0E-03	1.3E-03	3.9E-05	1.5E-05	1.7E-03	1.3E-03	5.9E-04	4.5E-05	2.2E-05
75-07-0	Acetaldehyde	2.1E-02	1.8E-02	3.8E-03	5.9E-04	2.4E-04	2.1E-02	1.8E-02	3.8E-03	5.9E-04	2.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
60-35-5	Acetamide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-05-8	Acetonitrile	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-02-8	Acrolein	3.3E-03	2.9E-03	6.1E-04	9.4E-05	3.8E-05	3.3E-03	2.9E-03	6.1E-04	9.4E-05	3.8E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-06-1	Acrylamide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-10-7	Acrylic acid	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-13-1	Acrylonitrile	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-07-9	Aldehydes	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
309-00-2	Aldrin	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-05-1	Allyl chloride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
117-79-3	Aminoanthraquinone, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7664-41-7	Ammonia	1.0E+01	8.6E+00	1.8E+00	1.1E-01	4.3E-02	1.0E+01	8.6E+00	1.8E+00	1.1E-01	4.3E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
62-53-3	Aniline	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-36-0	Antimony	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-00-1	Antimony Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1309-64-4	Antimony trioxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
140-57-8	Aramite	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-38-2	Arsenic	6.3E-03	5.3E-03	1.3E-03	5.0E-05	2.2E-05	5.5E-03	4.7E-03	1.0E-03	3.0E-05	1.2E-05	7.7E-04	5.6E-04	2.6E-04	2.0E-05	9.8E-06
0-00-2	Arsenic Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1327-53-3	Arsenic Trioxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7784-42-1	Arsine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1332-21-4	Asbestos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-39-3	Barium	8.4E-04	6.2E-04	2.9E-04	6.5E-05	3.2E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.4E-04	6.2E-04	2.9E-04	6.5E-05	3.2E-05
00-03-0	Barium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
56-55-3	Benz[a]anthracene	5.6E-06	4.1E-06	1.9E-06	4.4E-07	2.2E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.6E-06	4.1E-06	1.9E-06	4.4E-07	2.2E-07
88-74-4	Benzenamine, 2-Nitro-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
71-43-2	Benzene	2.8E-02	2.4E-02	5.2E-03	3.7E-04	1.5E-04	2.8E-02	2.4E-02	5.0E-03	3.3E-04	1.3E-04	3.8E-04	2.8E-04	1.3E-04	3.8E-05	1.9E-05

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
25013-15-4	Benzene, Ethenylmethyl-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
92-87-5	Benzidine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
205-82-3	Benzo(j)fluoranthene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
207-08-9	Benzo(k)fluoranthene	2.0E-06	1.5E-06	7.0E-07	1.6E-07	7.8E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.0E-06	1.5E-06	7.0E-07	1.6E-07	7.8E-08	
50-32-8	Benzo[a]pyrene	2.3E-06	1.7E-06	7.9E-07	1.8E-07	8.8E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-06	1.7E-06	7.9E-07	1.8E-07	8.8E-08	
205-99-2	Benzo[b]fluoranthene	2.0E-06	1.5E-06	7.0E-07	1.6E-07	7.8E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.0E-06	1.5E-06	7.0E-07	1.6E-07	7.8E-08	
100-44-7	Benzyl chloride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-41-7	Beryllium	7.3E-04	5.5E-04	2.3E-04	1.4E-05	6.6E-06	1.6E-04	1.3E-04	2.9E-05	8.5E-07	3.4E-07	5.7E-04	4.2E-04	2.0E-04	1.3E-05	6.3E-06
0-00-3	Beryllium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-60-1	Bis(2-chloro-1-methylethyl)ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
117-81-7	Bis(2-ethylhexyl)phthalate (DEHP)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
542-88-1	Bis(chloromethyl)ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-42-8	Boron	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7637-07-2	Boron trifluoride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-25-2	Bromotform	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-99-0	Butadiene, 1,3-	8.0E-03	6.9E-03	1.5E-03	4.0E-05	1.6E-05	8.0E-03	6.9E-03	1.5E-03	4.0E-05	1.6E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-76-2	Butyl Cellosolve (ethylene glycol monobutyl ether)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-43-9	Cadmium	3.0E-03	2.5E-03	6.4E-04	4.2E-05	1.9E-05	2.4E-03	2.1E-03	4.4E-04	1.3E-05	5.3E-06	5.7E-04	4.2E-04	2.0E-04	2.9E-05	1.4E-05
0-00-4	Cadmium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-15-0	Carbon disulfide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
56-23-5	Carbon tetrachloride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-15-9	(ethylene glycol monoethyl ether acetate)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57-74-9	Chlordane	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108171-26-2	Chlorinated Paraffins (C12, 60% Chlorine)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7782-50-5	Chlorine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10049-04-4	Chlorine Oxide (ClO ₂)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-68-3	Chloro-1,1-difluoroethane, 1-(HCFC-142b)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
532-27-4	Chloroacetophenone, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-90-7	Chlorobenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
510-15-6	Chlorobenzilate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-45-6	Chlorodifluoromethane (HCFC-22)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
67-66-3	Chloroform	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-83-0	Chloro-o-phenylenediamine, 4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-69-2	Chloro-o-toluidine, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
76-06-2	Chloropicrin	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
126-99-8	Chloroprene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-29-6	Chloropropane, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
18540-29-9	Chromic acid mists and dissolved Cr(VI) aerosols	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
18540-29-9	Chromium (Hexavalent) (particulate)	6.1E-03	5.1E-03	1.2E-03	6.4E-05	2.9E-05	5.5E-03	4.7E-03	1.0E-03	3.0E-05	1.2E-05	5.7E-04	4.2E-04	2.0E-04	3.3E-05	1.7E-05
0-00-5	Chromium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
218-01-9	Chrysene (Benzo(a)phenanthrene)	3.3E-06	2.4E-06	1.1E-06	2.5E-07	1.3E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.3E-06	2.4E-06	1.1E-06	2.5E-07	1.3E-07
8007-45-2	Coal Tar	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-48-4	Cobalt	1.6E-05	1.2E-05	5.5E-06	1.2E-06	6.1E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.6E-05	1.2E-05	5.5E-06	1.2E-06	6.1E-07
0-00-6	Cobalt Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-00-7	Coke Oven Emissions	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-50-8	Copper	1.1E-03	8.4E-04	3.9E-04	8.9E-05	4.4E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.1E-03	8.4E-04	3.9E-04	8.9E-05	4.4E-05
00-03-1	Copper Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
120-71-8	Cresidine, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-39-4	Cresol, m-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-48-7	Cresol, o-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-44-5	Cresol, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1319-77-3	Cresols/Cresylic acid (isomers and mixture)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
98-82-8	Cumene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
135-20-6	Cupferron	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57-12-5	Inorganic cyanides, (Isocyanide)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-00-8	Cyanide Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
542-92-7	Cyclopentadiene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
50-29-3	DDT	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
615-05-4	Diaminoanisole, 2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
103-33-3	Diazene, Diphenyl	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
226-36-8	Dibenz(a,h)acridine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
224-42-0	Dibenz(a,j)acridine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPC A #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
53-70-3	Dibenz[a,h]anthracene	2.3E-06	1.7E-06	7.9E-07	1.8E-07	8.8E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-06	1.7E-06	7.9E-07	1.8E-07	8.8E-08
192-65-4	Dibenz(a,e)pyrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
189-64-0	Dibenz(a,h)pyrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
191-30-0	Dibenz(a,l)pyrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
194-59-2	Dibenzo(c,g)carbazole, 7H-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
189-55-9	Dibenzo[a,i]pyrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
132-64-9	Dibenzofurans	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
96-12-8	Dibromo-3-chloropropane, 1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
764-41-0	Dichloro-2-butene, 1,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-46-7	Dichlorobenzene(p), 1,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-50-1	Dichlorobenzene, 1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
25321-22-6	Dichlorobenzenes	2.3E-04	1.7E-04	7.9E-05	1.8E-05	8.8E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-04	1.7E-04	7.9E-05	1.8E-05	8.8E-06
91-94-1	Dichlorobenzidine, 3,3-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-71-8	Dichlorodifluoromethane (CFC-12)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-44-4	Dichloroethyl ether (Bis(2-chloroethyl)ether)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-35-4	Dichloroethylene (1,1-(Vinylidene chloride))	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
542-75-6	Dichloropropene, 1,3-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
62-73-7	Dichlorvos	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
77-73-6	Dicyclopentadiene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
60-57-1	Dieldrin	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-02-4	Diesel exhaust particulate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-42-2	Diethanolamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
112-34-5	Diethylene Glycol Monobutyl Ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-37-6	Difluoroethane, 1,1-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
60-11-7	Dimethyl aminoazobenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
68-12-2	Dimethyl formamide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-01-0	Dimethylamino ethanol, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57-97-6	Dimethylbenz[a]anthracene, 7,12-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
42397-64-8	Dinitropyrene, 1,6- (BaP)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
42397-65-9	Dinitropyrene, 1,8- (BaP)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
121-14-2	Dinitrotoluene, 2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
123-91-1	Dioxane, 1,4-(1,4-Diethylenooxide)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
122-66-7	Diphenylhydrazine, 1,2-Epichlorohydrin (1-Chloro-2,3-epoxypropane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-88-7	Epoxybutane, 1,2-(ethylene glycol monoethyl ether)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
110-80-5	Ethyl benzene	1.7E-02	1.4E-02	3.1E-03	4.7E-04	1.9E-04	1.7E-02	1.4E-02	3.1E-03	4.7E-04	1.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
51-79-6	Ethyl carbamate (Urethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-00-3	Ethyl chloride (Chloroethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-93-4	Ethylene dibromide (Dibromoethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-06-2	Ethylene dichloride (1,2-Dichloroethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-21-1	Ethylene glycol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-21-8	Ethylene oxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
96-45-7	Ethylened thiourea	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-34-3	Ethyldene dichloride (1,1-Dichloroethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
50-00-0	Formaldehyde	4.4E-01	3.7E-01	9.0E-02	1.4E-02	5.8E-03	3.7E-01	3.2E-01	6.8E-02	1.1E-02	4.5E-03	6.6E-02	4.8E-02	2.3E-02	2.6E-03	1.3E-03
98-01-1	Furancarboxaldehyde, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
111-30-8	Glutaraldehyde	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
765-34-4	Glycidyl	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-01-2	Glycol ethers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
76-44-8	Heptachlor	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1024-57-3	Heptachlor epoxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-5	Heptachlorodibenzodioxin, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
67562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
55673-89-7	Heptachlorodibenzofuran, 1,2,3,4,7,8,9-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-4	Heptachlorodibenzofuran, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
35822-46-9	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
118-74-1	Hexachlorobenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
87-68-3	Hexachlorobutadiene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
608-73-1	Hexachlorocyclohexane (technical grade)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
319-84-6	Hexachlorocyclohexane, alpha-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
319-85-7	Hexachlorocyclohexane, beta-1,2,3,4,5,6-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
77-47-4	Hexachlorocyclopentadiene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-3	Hexachlorodibenzodioxins, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
70648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57117-44-9	Hexachlorodibenzofuran, 1,2,3,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
72918-21-9	Hexachlorodibenzofuran, 1,2,3,7,8,9-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
60851-34-5	Hexachlorodibenzofuran, 2,3,4,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-2	Hexachlorodibenzofurans, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
39227-28-6	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57653-85-7	Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
19408-74-3	Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
67-72-1	Hexachloroethane	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
822-06-0	Hexamethylene-1,6-diisocyanate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
110-54-3	Hexane	3.4E-01	2.5E-01	1.2E-01	2.7E-02	1.3E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.4E-01	2.5E-01	1.2E-01	2.7E-02	1.3E-02
302-01-2	Hydrazine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10034-93-2	Hydrazine sulfate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7647-01-0	Hydrochloric acid	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
74-90-8	Hydrogen cyanide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7664-39-3	Hydrogen fluoride (Hydrofluoric acid)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7783-07-5	Hydrogen selenide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7783-06-4	Hydrogen sulfide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
193-39-5	Indeno(1,2,3-cd)pyrene	2.9E-06	2.2E-06	1.0E-06	2.3E-07	1.1E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.9E-06	2.2E-06	1.0E-06	2.3E-07	1.1E-07
78-59-1	Isophorone	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
67-63-0	Isopropyl alcohol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7439-92-1	Lead	8.7E-03	7.3E-03	1.9E-03	8.4E-05	3.8E-05	7.0E-03	6.0E-03	1.3E-03	3.9E-05	1.5E-05	1.7E-03	1.3E-03	5.9E-04	4.5E-05	2.2E-05
7758-97-6	Lead Chromate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-01-3	Lead Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
58-89-9	Lindane (all isomers)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-07-8	m- and p-Xylenes	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-31-6	Maleic anhydride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7439-96-5	Manganese	4.0E-01	3.4E-01	7.3E-02	2.2E-03	8.8E-04	4.0E-01	3.4E-01	7.2E-02	2.2E-03	8.7E-04	1.1E-03	8.4E-04	3.9E-04	3.1E-05	1.5E-05
0-01-4	Manganese Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
1313-13-9	Manganese Dioxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7439-97-6	Mercury	1.2E-03	9.4E-04	3.1E-04	2.0E-05	9.5E-06	6.0E-04	5.2E-04	1.1E-04	3.3E-06	1.3E-06	5.7E-04	4.2E-04	2.0E-04	1.7E-05	8.2E-06
0-02-3	Mercury Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
126-98-7	Methacrylonitrile	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
67-56-1	Methanol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
109-86-4	(ethylene glycol monomethyl ether EGME)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
74-83-9	Methyl bromide (Bromomethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
110-49-6	Methyl Cellosolve Acetate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
74-87-3	Methyl chloride (Chloromethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
71-55-6	Methyl chloroform (1,1,1-Trichloroethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-87-2	Methyl cyclohexane	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
78-93-3	Methyl ethyl ketone (2-Butanone)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-10-1	Methyl isobutyl ketone (Hexone)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
624-83-9	Methyl isocyanate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
80-62-6	Methyl methacrylate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1634-04-4	Methyl tert butyl ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
56-49-5	Methylcholanthrene, 3-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3697-24-3	Methylchrysene, 5-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
101-14-4	Methylene bis(2-chloroaniline), 4,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-09-2	Methylene chloride (Dichloromethane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
101-68-8	Methylene diphenyl diisocyanate (MDI)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
101-77-9	Methylenedianiline, 4,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-86-5	Methyl lactonitrile, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
90-94-8	Michler's ketone	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
N-10595-95-6	Nitrosomethylalkylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
91-20-3	Naphthalene	1.8E-02	1.5E-02	3.2E-03	1.2E-04	5.0E-05	1.8E-02	1.5E-02	3.2E-03	1.2E-04	4.6E-05	9.6E-05	7.0E-05	3.3E-05	8.9E-06	4.4E-06
7440-02-0	Nickel	2.9E-03	2.4E-03	6.2E-04	5.6E-05	2.7E-05	2.3E-03	2.0E-03	4.2E-04	1.3E-05	5.1E-06	5.7E-04	4.2E-04	2.0E-04	4.4E-05	2.2E-05
0-01-5	Nickel Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1313-99-1	Nickel oxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
0-02-5	the pyrometallurgical process	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12035-72-2	Nickel sulfide (Ni3S2)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPC A #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
7697-37-2	Nitric acid	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
602-87-9	Nitroacenaphthene, 5-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
98-95-3	Nitrobenzene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7496-02-8	Nitrochrysene, 6-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
607-57-8	Nitrofluorene, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10102-44-0	Nitrogen oxide (NO2)	3.3E+01	2.6E+01	9.0E+00	7.7E-01	3.7E-01	1.4E+01	1.2E+01	2.6E+00	1.0E-01	4.1E-02	1.9E+01	1.4E+01	6.4E+00	6.7E-01	3.3E-01
79-46-9	Nitropropane, 2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5522-43-0	Nitropyrene, 1-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57835-92-4	Nitropyrene, 4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
156-10-5	Nitrosodiphenylamine, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
55-18-5	N-Nitrosodiethylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
62-75-9	N-Nitrosodimethylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
924-16-3	N-Nitrosodi-n-butylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
621-64-7	N-Nitrosodi-n-propylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
86-30-6	N-Nitrosodiphenylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
59-89-2	N-Nitrosomorpholine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
100-75-4	N-Nitropiperidine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
39001-02-0	Octachlorodibenzofuran, 1,2,3,4,5,6,7,8	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3268-87-9	Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-1	Pentachlorodibenzodioxins, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57117-41-6	Pentachlorodibenzofuran, 1,2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
57117-31-4	Pentachlorodibenzofuran, 2,3,4,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-09-0	Pentachlorodibenzofuran s, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
40321-76-4	Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
87-86-5	Pentachlorophenol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-07-7	Petroleum Hydrocarbons, Aliphatic (C7 - C11)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-95-2	Phenol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-44-5	Phosgene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7803-51-2	Phosphine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7664-38-2	Phosphoric acid	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7723-14-0	Phosphorus	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
85-44-9	Phthalic anhydride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1336-36-3	Polychlorinated biphenyls (Aroclors)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-05-0	Polychlorinated Dibenzodioxins, Total	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-05-1	Polychlorinated Dibenzofurans, Total	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-0	P-Dioxins And Furans, Total	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
130498-29-2	Polycyclic Aromatic Hydrocarbons (PAH)	2.7E-03	2.3E-03	4.9E-04	2.7E-05	1.1E-05	2.7E-03	2.3E-03	4.9E-04	2.7E-05	1.1E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-01-7	Polycyclic Organic Matter (POM)	4.4E-03	3.2E-03	1.5E-03	9.1E-05	4.5E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.4E-03	3.2E-03	1.5E-03	9.1E-05	4.5E-05
9016-87-9	diphenylmethane diisocyanate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7758-01-2	Potassium bromate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1120-71-4	Propane sultone, 1,3-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
115-07-1	Propylene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
78-87-5	Propylene dichloride (1,2-Dichloropropane)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
107-98-2	Propylene Glycol Monomethyl Ether	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-56-9	Propylene oxide	1.5E-02	1.3E-02	2.8E-03	4.3E-04	1.7E-04	1.5E-02	1.3E-02	2.8E-03	4.3E-04	1.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
930-55-2	Pyrrolidine, 1-Nitroso-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7784-49-2	Selenium	1.5E-02	1.3E-02	3.3E-03	1.3E-04	5.9E-05	1.3E-02	1.1E-02	2.3E-03	6.9E-05	2.7E-05	2.9E-03	2.1E-03	9.9E-04	6.4E-05	3.2E-05
0-01-9	Selenium Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-22-4	Silver	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-03-2	Silver Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1310-73-2	Sodium hydroxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7789-06-2	Strontium chromate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
100-42-5	Styrene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
96-09-3	Styrene oxide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
14808-79-8	Sulfates	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7664-93-9	Sulfuric acid (aerosol forms only)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8014-95-7	Sulfuric Acid mixture w. sulfur trioxide (oleum)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-09-1	TCDD Equivalents, 2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-8	Tetrachlorodibenzodioxins, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-9	, Other (Excluding 2,3,7,8)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
51207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
00-08-6	Tetrachlorodibenzofurans, All Isomers	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
00-08-7	Tetrachlorodibenzofurans, Other (Excluding 2,3,7,8)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1746-01-6	Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
630-20-6	Tetrachloroethane, 1,1,1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-34-5	Tetrachloroethane, 1,1,2,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
127-18-4	Tetrachloroethylene (Perchloroethylene)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
25167-83-3	Tetrachlorophenol	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
811-97-2	Tetrafluoroethane, 1,1,1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
62-55-5	Thioacetamide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-88-3	Toluene	7.6E-02	6.4E-02	1.5E-02	2.2E-03	8.8E-04	6.8E-02	5.8E-02	1.2E-02	1.9E-03	7.6E-04	8.5E-03	6.2E-03	2.9E-03	2.4E-04	1.2E-04
95-80-7	Toluene diamine, 2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
584-84-9	Toluene diisocyanate, 2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
91-08-7	Toluene-2,6-diisocyanate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
26471-62-5	Toluenediisocyanate (mixed isomers)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8001-35-2	Toxaphene (chlorinated camphene)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
76-13-1	trifluoroethane, 1,1,2-(Freon 113)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
120-82-1	Trichlorobenzene, 1,2,4-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-00-5	Trichloroethane, 1,1,2-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
79-01-6	Trichloroethylene	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-69-4	Trichlorofluoromethane (CFC-11)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
88-06-2	Trichlorophenol, 2,4,6-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
121-44-8	Triethylamine	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1314-62-1	Vanadium oxide, (V ₂ O ₅)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
108-05-4	Vinyl acetate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
593-60-2	Vinyl bromide	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
75-01-4	Vinyl chloride	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1330-20-7	Xylenes	3.3E-02	2.9E-02	6.2E-03	9.5E-04	3.8E-04	3.3E-02	2.9E-02	6.1E-03	9.4E-04	3.8E-04	1.4E-04	1.1E-04	4.9E-05	3.4E-06	1.7E-06
108-38-3	Xylenes, m-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
95-47-6	Xylenes, o-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
106-42-3	Xylenes, p-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7440-66-6	Zinc	5.6E-03	4.1E-03	1.9E-03	4.3E-04	2.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.6E-03	4.1E-03	1.9E-03	4.3E-04	2.1E-04
13530-65-9	Zinc chromate	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

No Inputs Allowed on This Page

Screening Date:	0
AQ Facility ID No.:	0
AQ File No.:	0
Facility Name:	Faribault Energy Park
Facility Location:	Faribault Energy Park
User Title:	FEP Combined Cycle Calcs

Air Concentrations in ug/m ³		Total - all stacks					Stack(s)#1				Stack(s)#2					
CAS # or MPCA #	Chemical Name	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)	C (1-hr)	C (3-hr)	C (24-hr)	C (monthly)	C (annual)
00-03-3	Zinc Compounds	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00